



Cornell University

Announcements

Medical College

1970-71

#### CORNELL UNIVERSITY ANNOUNCEMENTS

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Cornell University

Medical College

1970-71

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The courses and curricula described in this *Announcement*, and the teaching personnel listed therein, are subject to change at any time by official action of Cornell University.

## 1970

## July

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# Calendar, 1970-1971

## First and Second Years

### 1970

Sept. 7	Labor Day
Sept. 9, 10, and 11	Orientation and registration for first year Registration for second year
Sept. 11	Opening exercises, 3:00 p.m.
Sept. 14	Instruction begins, 9:00 a.m.
Oct. 26-Nov. 3	Fall recess for first and second years
Nov. 26-29	Thanksgiving, holiday
Dec. 8	Fall term ends, 5:00 p.m.
Dec. 9-15	Examinations
Dec. 16	Beginning of winter term
Dec. 22	Instruction ends, 5:00 p.m., Christmas recess begins
Dec. 25	Christmas Day, holiday

### 1971

Jan. 1	New Year's Day, holiday
Jan. 4	Christmas recess ends, instruction begins, 9:00 a.m.
Mar. 12	Winter term ends, 5:00 p.m.
Mar. 15-17	Examinations for second year
Mar. 15-24	Examinations for first year
Mar. 18-21	Spring recess for second year
Mar. 22	Spring term begins for second year
Mar. 25-28	Spring recess for first year
Mar. 29	Spring term begins for first year
May 17 and 18	New York Hospital bicentennial celebration—holidays
May 31	Memorial Day, holiday
June 4	Instruction ends for second year, 5:00 p.m.
June 7-9	Examinations for second year
June 11	Instruction ends for first year, 5:00 p.m.
June 14 and 15	Examinations for first year

## Third Year

### 1970

Sept. 7	Labor Day
Sept. 8	Registration; instruction begins for third year
Nov. 2	First rotation of Section II, Divisions C, D, and E
Nov. 26	Thanksgiving Day, holiday
Nov. 30	Rotation of Section I, Divisions A and B
Dec. 19, 1:00 p.m.-	
Jan. 4, 8:00 a.m.	Christmas vacation

1971

Jan. 4	Second rotation of Section II, Divisions C, D, and E
Mar. 1	Midyear rotation of all divisions of Sections I and II
Apr. 18-25	Spring vacation
Apr. 26	First rotation of Section I, Divisions C, D, and E
May 24	Rotation of Section II, Divisions A and B
May 31	Memorial Day, holiday
June 14	Second rotation of Section I, Divisions C, D, and E
July 5	Independence Day, holiday
Aug. 7	Instruction ends for third year

## Fourth Year

1970

Sept. 8	Registration
Dec. 19-Jan. 4	Christmas vacation

1971

May 27	Instruction ends, 1:00 p.m.
June 2	Commencement, 3:00 p.m.

## Elective Modules

A	Sept. 8-Oct. 24	(7 weeks)
B	Oct. 26-Dec. 19	(8 weeks)
C	Jan. 4-Feb. 20	(7 weeks)
D	Feb. 22-Apr. 10	(7 weeks)
E	Apr. 12-May 27	(7 weeks)



# Cornell University

## The Medical College

Cornell University Medical College has as its dual aims the development of the best possible physicians and the advancement of medical knowledge through research. The faculty believes that in the ideal medical school high-quality teaching and widely ranging investigations in the life sciences are carried on concurrently with optimal care of patients.

### History

Cornell University Medical College was established on April 14, 1898, by the Board of Trustees of Cornell University. Although the University, which had been founded in 1865, was situated in Ithaca, New York, the Medical College was established in New York City in order to take advantage of the clinical teaching facilities available in a large population area. The original faculty was composed of a group of distinguished professors who had previously operated a teaching institution known as the Medical College Laboratory. The Laboratory was at one time affiliated with the medical department of New York University.

The trustees of Cornell University had wanted to form a medical education unit at various times since the founding of the University, and, in 1898, the generous gifts of Colonel Oliver H. Payne made possible the establishment of the Medical College. Colonel Payne, who provided funds for the support of the College for several years, later created a permanent endowment by donating a gift of more than four million dollars to the College.

The first Dean of the Medical College was Dr. William Mecklenburg Polk. Among the early faculty members were such renowned scientists as Dr. Lewis A. Stimson, professor of surgery; Dr. James Ewing, professor of pathology; and Dr. Graham Lusk, professor of physiology. The College has been well known, from the time of its establishment, for a faculty composed of persons distinguished both as scientific investigators and as teachers.

In 1900, the College occupied its first permanent headquarters at Twenty-eighth Street and First Avenue. The College was one of the first in the country to admit women as well as men. It was also one of the first to require a degree from an undergraduate college as a standard for admission.

## 8 Facilities for Instruction

### Facilities for Instruction

#### The Medical College

Instruction in the medical sciences is conducted in the buildings along York Avenue from Sixty-eighth to Seventieth Streets. The entrance to the Medical College, at 1300 York Avenue, is in the Samuel J. Wood Library and Research Building. The main reading room, the catalog and reference sections, and the area for the current journals of the Library are on the first floor of this building. The Medical College Alumni Office (Room C-140) and the Office of Admissions and Student Affairs (Room C-118) are located directly behind the Library. The B and D areas of the Medical College adjoin the Wood Building on the north and south sides. Additional research and teaching facilities as well as the central animal care laboratories are located between the A and B buildings in the new William Hale Harkness Medical Research building. The upper floors of the central portion of the Medical College house the Departments of Microbiology, Pathology, Public Health and Physiology, along with the research laboratories for several of the clinical departments. The Department of Anatomy is in the building at Seventieth Street (Area A), and the building at the Sixty-eighth Street (Area E) end of the College houses the Departments of Biochemistry and Pharmacology. The central buildings are joined to the main hospital buildings on each of the seven floors. The College auditorium, the student laboratories and lecture rooms for the basic science departments, and the extensive research facilities for staff and students are also housed in the buildings along York Avenue.

#### Graduate School of Medical Sciences

The Graduate School of Medical Sciences, one of the three academic units on Cornell's New York City campus, was organized in 1952 as a semiautonomous component of the Graduate Faculty of Cornell University and is responsible for administering all advanced degrees granted for study in residence on the New York City campus. The school is composed of two divisions: the Medical College Division consisting of faculty members principally from the basic science departments of the Cornell University Medical College, and the Sloan-Kettering Division consisting of staff members from the Sloan-Kettering Institute for Cancer Research.

The faculty of the Graduate School of Medical Sciences currently offers graduate programs leading to the M.S. and Ph.D. degrees in eleven biomedical fields: Biochemistry, Biological Structure and Cell Biology, Biology, Biomathematics, Biophysics, Genetics, Microbiology, Neurobiology and Behavior, Pathology, Pharmacology, and Physiology. These programs are designed for students interested in careers in teaching and research in the various basic biomedical sciences.

All of the facilities of the Cornell University Medical College and the Sloan-Kettering Institute for Cancer Research are available to graduate students. Such facilities include, in addition to well-equipped classrooms and libraries, unexcelled modern laboratories and equipment for research. For further

details, refer to the *Announcement of the Graduate School of Medical Sciences*.

### The New York Hospital

Clinical instruction is given in the eight separate departments forming the New York Hospital. The medical and surgical departments occupy the central hospital building; the women's clinic (Lying-In Hospital), the pediatric department, and the psychiatric department (Payne Whitney Clinic) extend from north to south, overlooking the East River. Each clinic contains facilities for bed patients, outpatient department, lecture rooms, and laboratories for clinical study and research. Special provision has also been made for student laboratory work. The Department of Medicine occupies the second to fourth floors of the central hospital building, with semiprivate areas for bed patients, three floors for the outpatient department, and extensive laboratories for chemical, physiological, and biological research. The Department of Surgery utilizes the fifth to the ninth floors for semiprivate beds and outpatient services as well as facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above these are 6 floors containing 128 rooms for private patients. Living quarters for the resident staff are in the new house-staff residence across York Avenue. The entire Hospital has a capacity of approximately 1,230 beds. The Westchester Division in White Plains, N.Y., contains an additional 350 beds. This division, together with the Payne Whitney Clinic, forms the Department of Psychiatry of The New York Hospital-Cornell Medical Center.

The chairman of each department is responsible for the care of patients and the conduct of professional services in the Hospital. He is also the professor in charge of the corresponding department in the Medical College. Every clinical department is staffed by a corps of salaried faculty members, including the chairman, who devote their full time to the service of the College and the Hospital. Other members of the faculty devote part of their time to private practice.

### The Hospital for Special Surgery

The Hospital for Special Surgery, maintained by the New York Society for the Relief of the Ruptured and Crippled, was founded in 1863 as the first institution in the United States for the treatment of orthopedic conditions. It affiliated with The New York Hospital-Cornell Medical Center in 1949 and moved to its present location at 535 East Seventieth Street in 1955. The Hospital consists of a modern facility containing 204 beds, caring for some 3,400 inpatients a year and 4,500 outpatients in eighteen specialty clinics. Twenty-four residents are trained in a four-year program in orthopedic surgery. The Hospital maintains a school for the training of practical nurses.

The Philip D. Wilson Research Foundation was opened in 1960 to investigate the causes, prevention, and improvement in the treatment of orthopedic and rheumatic diseases.

The Hospital for Special Surgery provides the orthopedic and rheumatic diseases services for The New York Hospital-Cornell Medical Center.

## **10 Facilities for Instruction**

### **The Burke Rehabilitation Center**

The Burke Rehabilitation Center, 785 Mamaroneck Avenue, White Plains, New York, was founded in April, 1915, by John Masterson Burke as a tribute to the memory of his mother, Winifred Masterson Burke. On March 14, 1968, the Burke Center became affiliated with The New York Hospital-Cornell Medical Center.

A 150-bed rehabilitation center accredited by the Joint Commission on Accreditation of Hospitals, the Burke Rehabilitation Center offers a multi-disciplinary approach to the rehabilitation phase of total medical care. Since the primary objective of its program is the integration of the disabled patient into the community as a responsible individual functioning at his maximum potential, the Center offers its diagnostic, evaluative, and treatment services to those of all ages who have need for medical rehabilitation care.

The comprehensive program includes: services of physicians, trained in rehabilitation and all other medical specialties; nursing care; nutritional research and application; occupational therapy; physical therapy, speech and hearing services; psychological and psychiatric services; social services; and vocational evaluation and training.

Among the research and study programs being conducted at the Burke Rehabilitation Center are: a demonstration research program in nutrition and metabolic research, a stroke research study, a Parkinsonism research study, a cardiopulmonary study; and sociomedical research.

### **Memorial Hospital for Cancer and Allied Diseases**

Memorial Hospital is affiliated with the Sloan-Kettering Institute for Cancer Research; the two institutions form Memorial Sloan-Kettering Cancer Center. In the terms of the Douglas Deeds of Trust set up by the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, Memorial Hospital became affiliated with Cornell University Medical College in 1914. The agreement between Memorial Hospital and the College requires that the professional staff of the Hospital be named by the Council of the Medical College, subject to the approval of the Board of Managers of the Hospital. The facilities of Memorial Hospital offer unusual opportunities for instruction in the pathology, diagnosis, and treatment of neoplastic diseases. Memorial Hospital has 273 beds, and the James Ewing Pavilion, formerly a municipal hospital affiliated with Memorial, has 240 beds.

### **Manhattan Eye, Ear and Throat Hospital**

One of the world's principal centers for the diagnosis and treatment of disorders of sight, hearing, and speech, Manhattan Eye, Ear and Throat Hospital became affiliated with Cornell University and The New York Hospital in 1968. In addition to its programs of patient care and treatment, this hospital now serves as Cornell University Medical College's teaching facility in ophthalmology and otorhinolaryngology and as a patient referral center for those specialties. Medical teaching is under the direction of the Medical

College which, along with The New York Hospital, provides a wide range of consultative and other services not ordinarily available in a specialty hospital.

### **North Shore Hospital**

North Shore Hospital, a 430-bed, acute-care hospital in Manhasset, Long Island, serving heavily populated portions of Nassau and Queens Counties, was formally affiliated with Cornell University in 1969.

All members of the full-time staff of North Shore Hospital are appointed to the faculty of the Medical College. Opportunities for clinical instruction are provided in medicine, surgery, pediatrics, radiology, and obstetrics-gynecology at the third- and fourth-year student levels. Since 1967, joint programs of internship, residency, and fellowship training have been offered in conjunction with The New York Hospital and Memorial Hospital.

### **The Loomis Laboratory**

The original Loomis Laboratory, which was founded in 1886, at 414 East Twenty-sixth Street, provided research and teaching facilities for Cornell faculty members before the Medical College was moved to its present location. A teaching laboratory in the Department of Pathology is named the Loomis Laboratory in recognition of the earlier institution.

### **The Russell Sage Institute of Pathology**

The Russell Sage Institute of Pathology has been associated with the Medical College since 1913 and was incorporated into The New York Hospital in 1932. The Institute supports work in metabolism which is conducted by members of the Departments of Medicine and Physiology. The Medical Director of the Institute is Dr. Alexander G. Bearn, Professor of Medicine.

### **The Libraries**

The reading room of the Medical College Library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at 1300 York Avenue. The sections for current journals, reference works, and medical monographs are adjacent to the reading room. The book stacks and carrels are on the two floors below the main reading room.

The College Library has more than 90,000 books and 1,360 journals dealing with the medical sciences and clinical medicine. There are many complete sets of important journals in English, German, and French as well as selected collections of monographs and textbooks.

Several of the departments in the Medical College have libraries with journals, monographs, and textbooks pertaining to the specific subject areas of the departments. These collections, interlibrary loans, and photoduplicate copies from other libraries, including the National Library of Medicine, supplement the Medical College Library.

## **12 Facilities for Instruction**

In addition to using the College Library, students may obtain certain privileges at the library of the New York Academy of Medicine. The Academy, which is located at Fifth Avenue and 103rd Street, has the second-largest medical library in the United States.

**THE OSKAR DIETHELM HISTORICAL LIBRARY.** Begun in 1936, the Oskar Diethelm Historical Library has grown to be an excellent collection of nearly 10,000 original works published before 1920 relating to the history of psychiatry and allied subjects. Together with a modern reference collection, the Library serves as the center of research and training activities of the section on the history of psychiatry and the behavioral sciences in the Department of Psychiatry.

## Requirements for Admission and Graduation

The faculty of Cornell University Medical College, in defining the qualifications for admission to the medical professions, attaches particular importance to the liberal and general education implied by the acquisition of a college degree. Cornell was one of the first medical colleges in the United States to require a college degree as a standard of admission. Only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell University Medical College:

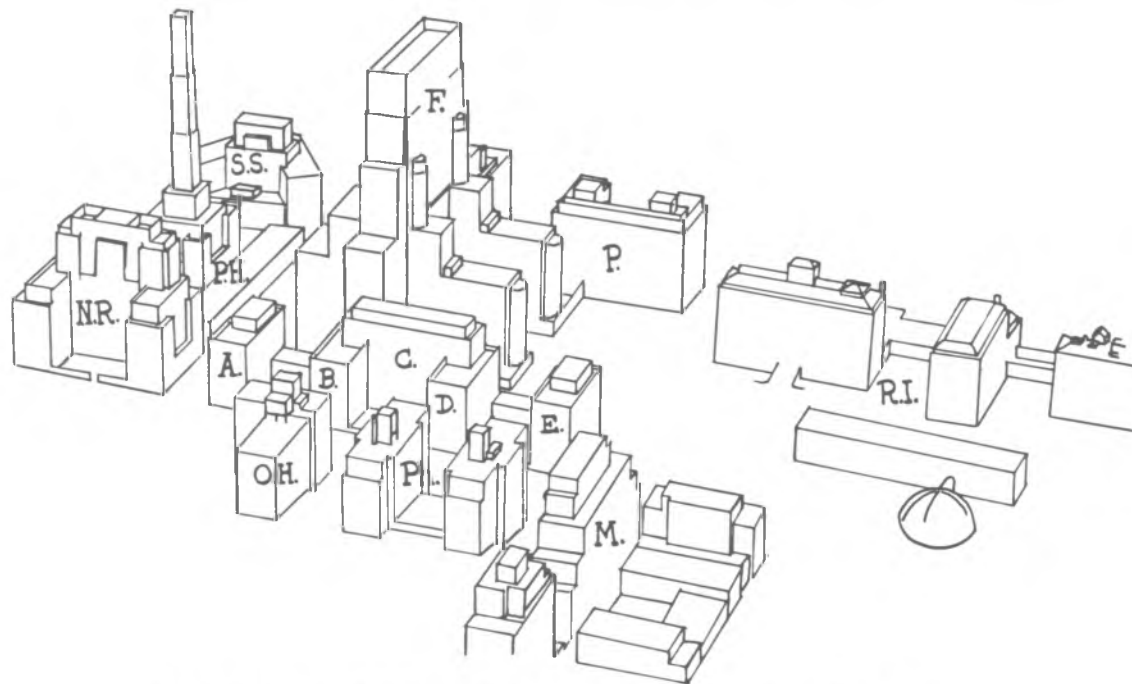
1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission in this way must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. A student who fails to receive his degree under this arrangement will not be admitted to the second year of the medical course.

The basic premedical requirements which all students must fulfill in order to qualify for admission to the study of medicine in New York State are set forth in the *Regulations of the Commissioner of Education*. In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least six semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry. Although these requirements form the basis of eligibility for admission to the medical course, they should be considered as representing an irreducible minimum. Only exceptional students are admitted with this minimal preparation as background.

The continuing rapid growth of medical science is reflected in the modern medical school curriculum by an increased quantity and a greater complexity of the material which a medical student must master. Accordingly, a sound preparation in biology, chemistry, and physics during the college years is necessary for a student planning to study medicine. The faculty of the Cornell Medical College recommends two terms of biological science beyond the introductory course, preferably in embryology, genetics, cellular biology, or comparative anatomy. This additional work in biology is particularly important for a student who has not majored in one of the sciences. Knowledge of quantitative chemistry is desirable, such as may be learned in courses in quantitative analysis and physical chemistry. Familiarity with the principles of statistics is valuable for a medical student, and a knowledge of calculus is important especially for those who plan to do advanced study in any of the basic medical science areas. A student not majoring in one of the sciences should realize that thorough basic training in the sciences is essential. A science major should not overlook the broad educational value of work in the humanities and social sciences. Students planning to study medicine should bear in mind that bacteriology, immunology, human







THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER (FROM THE WEST)

Key to the Photograph on the Opposite Page.

- A. Anatomy.
- B. Microbiology and Immunology.
- C. Administration and Pathology.
- D. Physiology.
- E. Biochemistry and Pharmacology.

- F. New York Hospital.
- M. Memorial Hospital.
- N.R. Nurses' Residence.
- O.H. Olin Hall.
- P. Payne Whitney Psychiatric Clinic.

- Ph. Phipps Houses.
- P.H. Power and Maintenance.
- R.I. Rockefeller University.
- S.S. Hospital for Special Surgery.

## 16 Requirements for Admission

physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect subjects which will lay a broad foundation for medical study rather than to anticipate courses required in the medical curriculum.

Each year the Committee on Admissions selects a class of ninety-one students from a group of more than 2,200 applicants. The members of the Committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, and soundness of personality that will enable them to complete satisfactorily their course in the Medical College. Moreover, a medical school must acknowledge its serious obligation to society. It must graduate only those who can be expected, with reasonable certainty, to do creditable work in medicine after graduation. The Committee on Admissions selects from all the applicants those who best seem to fulfill these requirements.

In selecting a relatively small class from a large group of well-qualified applicants, the Committee attempts to select candidates with varied backgrounds—from various geographic areas, from different socioeconomic groups, and from varying types of educational institutions. The Committee needs to satisfy itself that the applicant's scholastic record, both in courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Committee on Admissions looks at each applicant as a total individual, insofar as that is possible with the information obtainable.

It is the policy of Cornell University to support actively the American ideal of equality of opportunity for all, and no student shall be denied admission or be otherwise discriminated against because of race, color, creed, religion, or national origin.

Admission policies are also in conformity with the policy of New York State in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule, the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as adequate to fulfill the admission requirements.

A summer fellowship program for minority-group premedical students has the specific aim of increasing the number of minority-group students in leading medical schools. Premedical students who have completed their junior year spend ten weeks as summer Fellows at the Medical Center. They work at a variety of research activities with sponsors who are faculty members from different departments. The students in this program are involved jointly

with medical students who hold similar fellowships. The Fellows receive a stipend of \$100 per week. All students are housed in Olin Hall, the medical students' dormitory. A series of seminars, scheduled twice weekly, provides information on medical careers and includes such topics as procedures for application to medical schools and means of scholarship aid. Also, students have an opportunity to hear and to question physicians, including black physicians, who live and work in the metropolitan area.

Information regarding applications for fellowships and all other aspects of minority-group admissions can be obtained by writing to James Curtis, M.D., Associate Dean, Cornell University Medical College. Application should be made early in the junior year and not later than April 15.

## Applications for Admission

Requests for application forms should be addressed to the Committee on Admissions, Cornell University Medical College, 1300 York Avenue, New York City, N.Y. 10021. For entrance in September of a specific year, application forms are available after July 1 of the previous year.

To apply for admission, the student must do the following:

1. He must complete the application form and return it to the Committee on Admissions. No application will be accepted after November 30, and early application is generally advised. A nonrefundable charge of \$10 is made for filing an application. Checks or money orders should be made payable to Cornell University Medical College.
2. He must submit official transcripts of all undergraduate and graduate studies, including summer school, to the Committee on Admissions.
3. He must request that two letters of recommendation from individual faculty members who know the applicant or from the college premedical advisory committee be sent to the Committee on Admissions.
4. He must take the Medical College Admissions Test (MCAT). Information and applications may be obtained from the Psychological Corporation, 304 East Forty-fifth Street, New York City, N.Y. 10017.

Although the Committee on Admissions will attempt to notify the applicant if his application is incomplete, the responsibility for completing these requirements is the applicant's.

When a completed application has been received together with official transcripts, letters of recommendation, and MCAT scores, the Committee on Admissions reviews the application and requests personal interviews from applicants in whom it has serious interest. Because of the large number of applications, only about one-third of the applicants are invited for an interview. Any student who is attending a college at a distance from New York City, however, is invited to request an interview if he is visiting in the New York City area. In these cases, every effort will be made to arrange personal conferences with members of the Committee on Admissions. Members of the Committee also routinely visit a number of distant schools each year at which time personal interviews can be arranged. With few excep-

## 18 Advancement and Examination

tions, all students accepted for admission to Cornell University Medical College have been interviewed personally by the Committee or its representatives.

Applicants are promptly notified of the final decision of the Committee on Admissions beginning some time after mid-December. If the Committee takes favorable action, a letter of acceptance is forwarded to the applicant, who has two weeks either (1) to hold a place in the class in order to make a final decision at a later date, but not later than March 1, or (2) to accept a place in the class by sending a deposit of \$50. This deposit is not refundable after March 1 but is credited toward the first tuition payment.

### Admission for Advanced Standing

When vacancies occur, students may be admitted to advanced standing. Applications for a place in one of the upper classes should be filed according to the procedure described for admission to the first-year class. Applicants who are accepted are required to make a deposit of \$50. Candidates seeking admission to advanced standing must furnish evidence of having completed satisfactorily, in an approved medical school, all of the work required of students in the class which they wish to enter. In addition, these candidates must have completed the conditions of admission to the first-year class at Cornell University Medical College. These applicants must present a certificate of honorable dismissal from the medical school, or schools, they have attended, and they may be required to take examinations in any of the medical courses taken in another school.

Although a certain number of students are regularly admitted from other institutions to enter the third-year class at Cornell University Medical College, rarely have students been accepted to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

### Advancement and Examination

The medical curriculum is divided into four successive academic years, each of which builds upon the subject material of the preceding year. A student must complete all of the course work of one academic year before he can be approved for advancement by the faculty. Any student, who, by quality of work or by conduct, indicates an unfitness to enter the medical profession, may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the end of each academic term, examinations are normally given in all of the courses of that term. Final examinations are usually given at the conclusion of courses which extend for more than one term. A student's final rating in a course is determined by his performance in all of the course work and includes an evaluation of his effort, his seriousness of purpose and his scholastic resourcefulness, as well as the results of examinations.

A final rating is made for each student at the end of the academic year based on the results of his performance in all of the courses in the curriculum

of that year. These final ratings are made by formal action of the faculty after review of recommendations of the committee on promotion and graduation. The faculty finally rates students into one of four groups:

1. *Passed.* Students with no encumbrances in any subject are recorded as "passed." This rating confers eligibility for readmission into the Medical College in the next higher class, unless by reason of serious psychological or moral problem the faculty considers the student unsuited for the medical profession.

2. *Conditioned.* Students who fail any required courses are recorded as "conditioned." A "conditioned" student may be reexamined only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Make-up work and reexaminations will be given during the summer in the case of first- and second-year students. If a student fails a reexamination, he may be permitted to enter the next higher class if the failed material can be repeated at the same time. If the failure involves a course that cannot be fitted into his program, the student will be required to repeat the year. Students with failures in two courses after reexamination will be required to repeat the year.

All elective courses must be passed. An elective that is failed must be made up and the student reevaluated by the faculty member in charge of the course.

3. *Not passed.* If after reexamination a student has failures in three required courses in any one year, he is recorded as "not passed." A rating of "not passed" carries ineligibility for readmission to the Medical College.

4. Students with uniformly low grades in most courses for two or more years are subject to special review by the faculty. Students with a record of this kind may be deemed unqualified to enter the medical profession and be ineligible for readmission into the Medical College.

At the close of every academic year, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well-recognized institutions as credentials in support of his application for a position or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

## Requirements for Graduation

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year

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every student who has fulfilled these requirements will be recommended to the President and trustees of Cornell University for the degree of Doctor of Medicine.

### **Examinations for Medical Licensure**

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 3930 Chestnut Street, Philadelphia, Pennsylvania 19104.

# General Information

## Fees and Expenses

All fees for instruction and other charges are paid at the Business Office of the Medical College, Room D-07, 1300 York Avenue, New York, N.Y. 10021.

*Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-07, immediately after registering.*

The Board of Trustees of Cornell University has the right to change the schedule of fees of the Medical College when deemed expedient.

### APPLICATION FEE

A charge for reviewing an application ..... \$10

ACCEPTANCE DEPOSIT ..... \$50

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1970.

TUITION FEE (for one academic year) ..... \$2,000

COMPREHENSIVE FEE (for academic year) ..... \$ 200

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth-year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

#### 1. MATRICULATION FEE

2. STUDENT HOSPITALIZATION INSURANCE. This insurance (for the calendar year) is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. The plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in The New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

#### 3. PERSONNEL HEALTH SERVICE. (See description, p. 22.)

4. GRADUATION FEE AND RENTAL FEE for cap and gown for graduation exercises.

BOOKS, INSTRUMENTS, AND MICROSCOPES. The average cost of books and instruments is distributed approximately as follows: first year, \$275; second year, \$300; third year, \$175; fourth year, \$60.

Each student is required to provide himself with a microscope of an approved type. The instrument should have scanning (3-5 x), low-power

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(10  $\times$ ), and medium-power (40  $\times$ ) dry objectives. It is important that the coarse adjustment of the scope permit a clearance of at least 30 mm between the 10  $\times$  objective and the stage. The scope should also be equipped with a well-working oil immersion system. The oil immersion objective, substage condenser, and light source should produce sharp images of good resolution in a well-illuminated viewing field. Arrangements can be made to purchase a microscope from the College Book Store after arrival if the student desires. Monocular microscopes are available for rental at \$35 to \$50 a year. Anyone wishing to rent one should write to the Office of Admissions to make reservations as early as possible.

## Personnel Health Service

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first-year class and students transferred to advanced standing from other schools are required to have a physical examination which is given by a member of the Health Service staff. In addition, each student must have a chest x-ray, tuberculin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any x rays, laboratory tests, or similar procedures when they are needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance, unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of the insurance for each student is included in the Comprehensive Fee. Those students who wish to enroll their wives and families in the insurance program may do so by paying an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the Health Service staff. All cases of illness must be reported to Health Service. Students may have in attendance physicians of their own choice, but cooperation between such physicians and the Health Service is expected. Wives and families of students are not eligible for care through the Health Service but will be referred to appropriate members of the hospital staff for medical care.

## Residence Halls

F. W. Olin Hall, a student residence completed in 1954, is at 445 East Sixth-ninth Street, directly across from the Medical College entrance on York Avenue. Olin Hall contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room houses the George T. Delacourt Jr. Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since two rooms share a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Student rental for an academic year is \$600; for a full year (twelve months), \$710; and for periods of less





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than an academic year, \$60 per month. Several cafeterias are available in the main college and hospital buildings.

There are a limited number of apartments available through the Medical College for married students.

### Financial Aid

The Medical College has scholarship funds and loan funds to assist medical students who are in need of financial aid. These funds are described below.

New York State programs for financial aid to New York State residents are mentioned at the ends of the sections on scholarships and loans.

### Scholarships

Scholarship money is derived from the several endowed funds and other sources listed below, and from an appropriation from the Medical College budget. Scholarship awards are made, to the extent of the funds available, on the basis of comparative financial need. Any student in good standing in the Medical College who has real financial need is eligible to apply for assistance.

Awards to entering students are made on the same basis as to students already enrolled. An applicant's financial situation should be accurately described in his application for admission, and he should discuss any anticipated need for financial help with members of the admissions committee when he is interviewed. An applicant who has been accepted for admission and has indicated his intention of enrolling at the Medical College may file a formal application for scholarship aid.

Awards are made for one year only, and the financial situation is reviewed each year by the Committee on Scholarships.

1. THE JOHN METCALF POLK SCHOLARSHIP. A gift under the will of William Mecklenburg Polk, the first dean of the Medical College, is awarded annually by the faculty.

2. THE THORNE SHAW SCHOLARSHIP FUND provides three scholarships designated as: (1) one scholarship of approximately \$400, available to students after at least two years of study in the Medical College; (2) two scholarships of approximately \$200 each, available to students after at least one year of study in the Medical College.

3. MARY F. HALL SCHOLARSHIP. The income from a fund established by bequest of Miss Mary F. Hall is available to any woman student in Cornell University Medical College who needs its aid, who is a bona fide resident of the State of New York, and was such prior to admission to the College.

4. THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND of \$5,000 was established in 1936. The income is available annually to meritorious students who need its aid and who have completed one or more

years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be utilized for research work or other projects as determined by the faculty or trustees.

5. THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND of \$5,000 was established in 1939. The income is available annually to meritorious students who need its aid and who have completed one or more years of the regular medical course. The award is for one year only, but it is tenable for a second or third year provided the qualifications of the candidate merit it. If, during any year, the income from the fund is not used as stated above, it may be used for research work or other projects as determined by the faculty or trustees.

6. THE JEREMIAH S. FERGUSON SCHOLARSHIP was established in memory of Jeremiah S. Ferguson, who, throughout his connection of more than forty years with the Medical

College, devoted a great deal of his time to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000 and the income from it is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third- and fourth-year classes in the Medical College who are in need of financial aid and who, by their conduct and scholarship, have proved worthy investments.

**7. THE CHARLES RUPERT STOCKARD SCHOLARSHIP.** A fund of \$10,000 was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-39. The interest from this fund is to be awarded either to one or two students who have shown promise in the work in the Department of Anatomy and who are desirous of doing advanced work in that Department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the Department of Anatomy.

**8. THE DR. JOHN A. HEIM SCHOLARSHIPS.** This fund, which was established under the will of John A. Heim '05, provides as many scholarships in the Medical College as there are funds available for that purpose. The awards are made to regularly matriculated medical students who are in need of financial assistance as provided for in the terms of the bequest. First-year students who meet the prescribed standards are eligible.

**9. THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND.** Established in memory of their daughter, Anita Shirley Hyde, this endowment provides that income be available annually to meritorious students who have completed one year of the regular medical course and who are in need of assistance.

**10. THE DR. JACQUES SAPHIER SCHOLARSHIP FUND** was established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., U.S.N.R.), Class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in performance of his duty. The income is awarded annually to a meritorious student of Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

**11. THE ELSIE STRANG L'ESPERANCE SCHOLARSHIP.** Established by a bequest from Dr. L'Esperance, this scholarship provides financial assistance for women students at Cornell University Medical College.

**12. THE RUTH HOLLOHAN SCHOLARSHIP FUND** was established under the terms of the will of Jessie L. Hollohan in memory of

Ruth Hollohan. The income is used for scholarships in the Medical College with first consideration given to entering students of high academic achievement who are in need of financial assistance.

**13. THE WALLACE D. GARRABRANDT SCHOLARSHIP.** Established by Mabel G. Gormley, this scholarship is awarded annually to a regularly matriculated student of high academic achievement who is in need of financial assistance.

**14. THE LEONA E. TODD SCHOLARSHIP.** Under the terms of the will of Alzina T. Elliott, a scholarship fund is available to women students in the Medical College.

**15. FUND FOR TRAINING IN PSYCHIATRY.** A grateful patient, recognizing the value of psychiatric therapy in helping people achieve a more normal, fruitful life, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne Whitney Psychiatric Clinic.

**16. DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND.** Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

**17. THE LILLIAN M. CHARLES SCHOLARSHIP FUND.** The income from this fund, which was established by a generous gift from Mrs. Howard W. Charles, provides scholarship assistance for needy students who are in good academic standing.

**18. VIVIAN B. ALLEN SCHOLARSHIP.** Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

**19. MARY LOUISE WUESTER SCHOLARSHIP.** The income from this fund, which was established in memory of his mother by Dr. William O. Wuester, is awarded annually to a regularly matriculated medical student of good scholarship who is in need of financial aid.

**20. THE ROBERT E. SPENO SCHOLARSHIP FUND** was established in 1952 by a gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and the income from the endowment provides a room-rent scholarship.

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21. **ELIZABETH AND NEILL HOUSTON SCHOLARSHIP FUND.** The scholarship was established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall is designated the Elizabeth and Neill Houston Room, and the income from the endowment provides a room-rent scholarship.

22. **DR. HARRY ENO SCHOLARSHIP ENDOWMENT.** Established in 1955 by the gift of Dr. Harry Eno, the income from this endowment provides scholarships for needy and worthy students in the Medical College.

23. **THE JOSEPH P. FERRIGAN FUND.** The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

24. **THE THOMAS RENNIE SCHOLARSHIP FUND.** Friends of the late Dr. Rennie, professor of social psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

25. **THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP.** The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

26. **THE COPPERMINES FOUNDATION SCHOLARSHIP.** Endowed by a generous gift from the Coppermines Foundations, Inc., the fund provides financial assistance for needy and worthy students.

27. **THE MARY E. C. CANTLE SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest from Mary E. C. Cantle, provides scholarships for worthy students in the Medical College.

28. **THE MARY PUTNAM JACOBI—ANNA FORREST ROWE SCHOLARSHIP.** A bequest from William Vincent Rowe endowed this fund. The income provides scholarship assistance, preferably for women medical students.

29. **THE JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND** was established by a bequest from the estate of E. Norman P. Graham. It provides scholarship assistance for deserving students of the Medical College.

30. **THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND.** The income from the endowment, given by Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation, provides scholarships for students in good academic standing who need financial aid.

31. **THE DR. EDWARD HOENIG SCHOLARSHIP FUND** was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40 in memory of their father, Dr. Edward Hoenig '10. The income is to provide financial assistance for needy but worthy students.

32. **THE PFIZER LABORATORIES SCHOLARSHIP.** The amount of \$1,000, which is contributed annually by the Pfizer Laboratories Medical Scholarship Program, is awarded to a medical student who is in financial need.

33. **THE EQUITABLE LIFE ASSURANCE SOCIETY GRANT.** A \$5,000 grant is made annually by the Society to provide scholarships for students who are in need of financial aid.

34. **THE WELD FUND SCHOLARSHIP.** Established by David and Mary Blake Weld, the income from this fund provides scholarship assistance for needy students who are in good academic standing.

35. **THE CARL J. SCHMIDLAPP MEMORIAL FUND** was established by Dr. Jean Schmidlapp Humes '49 in memory of her father, Carl J. Schmidlapp, Cornell University '08. The income is awarded annually to a deserving student in any class of Cornell Medical College selected by the faculty on the basis of need and ability.

36. **MAIER AND SHANTSYA HITZIG SCHOLARSHIP.** Through a gift of \$5,000, Dr. William M. Hitzig '29 established this scholarship in memory of his father and mother. The income is allotted annually as a scholarship, with preference given to students who have done meritorious work in internal medicine.

37. **THE LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP.** Generous gifts of \$80,000 each to Cornell University Medical College and to three other New York City medical schools by the Lucien and Ethel Brownstone Foundation established the first American Merit Medical Scholarships. The income from the endowment is to be awarded as a four-year scholarship to one or two students. The donors hope to "stimulate the most innately gifted, best educated, and most mature individuals to enter the complex and humane field of medicine." The first award was made in 1968.

38. **THE PHILIP G. WOODWARD SCHOLARSHIP FUND.** The income from this fund, which was established by a bequest to The Society of the New York Hospital from Philip G. Woodward, is available to be used for Philip G. Woodward Scholarships, to be awarded to third- or fourth-year medical students of the Cornell University Medical College who have demonstrated interests, initiative, and ability in the fields of psychiatry, neurology, and/or behavioral biology.

39. **THE WALTER C. TEAGLE SCHOLARSHIP FUND**, established July 1, 1963, by The Teagle Foundation, Inc., is a permanent memorial in honor of Mr. Teagle, with recipients of the fund to be designated Teagle Scholars. The letter establishing the fund explains the goal of the award as follows: "It is the desire of the Directors of the Foundation that each student given an award be urged—but in no sense required in a legal way—to consider in later life making a gift to Cornell University for the benefit of some student in the Medical College, in order that future generations of medical students may have available further funds to help defray the rising costs of medical education."

40. **SAMUEL FARRAR KELLEY M.D. SCHOLARSHIP FUND**. Endowment for this fund was given by Mrs. Lillian E. Kelley in memory of her husband. Support from this fund is available to students in good standing who need financial assistance.

41. **THE JOHN V. BOHRER SCHOLARSHIP FUND**. Established by a bequest from Laura S. Bohrer in memory of her husband, Dr. John V. Bohrer, scholarships from this fund are awarded to students "who express a willingness and intention to restore to the trust fund the amounts received by them, as and when their circumstances permit."

42. **NEW YORK COMMUNITY TRUST SCHOLARSHIP**. These funds are provided by the New York Community Trust from a gift received from the late Charles F. Ikle. They are to extend "scholarship assistance to needy and overburdened medical students so as to decrease the necessity of their spending many hours of extraneous work in order to continue their medical studies."

43. **CONNIE GUION SCHOLARSHIP**. Providing annual tuition for a student of the Medical College, this scholarship was established by Mr. and Mrs. Vincent de Roulet to express their gratitude to Dr. Connie Guion.

44. **HEALTH PROFESSIONS SCHOLARSHIP PROGRAM**. At the present time the Health Professions Scholarship Program, administered by the Public Health Service of the U.S. Department of Health, Education, and Welfare, contributes approximately \$16,000 per year for each enrolled class. Maximum awards may not exceed \$2,500 per year, and all awards are based on demonstrated financial need.

45. **THE ANNA E. RAY ROBINSON EDUCATION FUND**. The income from this fund, established under the will of Anna E. Ray Robinson, provides scholarship assistance for medical students. A preference is to be given to descendants of Anna E. Ray Robinson and her husband.

46. **THE DICK KATZIN M.D. SCHOLARSHIP FUND** was established in 1966 by Dick Katzin '65. The income will be used to give financial aid to needy students.

47. **THE DR. THOMAS LOWRY SCHOLARSHIP FUND** was established by Dr. Elizabeth C. Lowry, a member of the class of 1935, in memory of her late husband, Dr. Thomas Lowry, who was also a member of that class. The income is to be used to provide financial assistance to women students in the Medical College. If in any year there is no woman student in need of such assistance, the income available may be awarded to a woman candidate for a Ph.D. in the Graduate School of Medical Sciences.

48. **THE EVELYN BUCKALEW OCHESTER AND CHARLES W. OCHESTER MEMORIAL SCHOLARSHIP FUND**. This permanent endowment fund was created by Alfred J. and LeMoine R. Buckalew in memory of their sister, Evelyn Buckalew Ochester, and her husband, Charles W. Ochester. Income from the fund is used to provide financial assistance or incentive recognition awards to worthy students who are in need.

## New York State Scholarships for State Residents

**SCHOLAR INCENTIVE PROGRAM**. Applications should be filed before July 1 for each academic year but will be accepted up to December 1. Applications for the spring semester only have an April 1 deadline. Annual application is required.

**REGENTS SCHOLARSHIPS FOR GRADUATE STUDY IN MEDICINE AND DENTISTRY**. Applications should be filed by October of the last year of preprofessional study.

**INFORMATION** may be obtained by writing: Regents Examination and Scholarship Center, New York State Education Department, Albany, New York 12210.

## Bursary for Women Students

**THE MARIE AND JOHN ZIMMERMAN FUND**. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the re-

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cipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

### Loan Funds

1. **THE 1923 LOAN FUND.** The income from this fund is available as a loan to a student needing financial assistance.

2. **ALUMNI ASSOCIATION LOAN FUNDS.** The Alumni Association of the Medical College is able to aid a few students in meeting their expenses through the Jessie P. Andersen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. **STUDENT LOAN FUND.** A revolving fund contributed through different sources, including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Bookstore, is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who, by reason of unforeseen circumstances, are having financial difficulties. A special committee considers each case on its individual merits. Students are required to clear themselves of all indebtedness to the College, with the exception of formal loans, before graduation.

4. **JOSEPH C. HINSEY LOAN FUND.** Established through the generosity of the Olin Foundation and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

5. **FEDERAL LOAN FUND.** The Medical College has participated with the Department of Health, Education, and Welfare in establishing a Health Professions Student Loan Fund, pursuant to Part C of Title VII of the Public Health Service Act as amended by the Health Professions Educational Assistance Act of 1963. Loans up to \$2,000 may be made yearly if justified by financial need. Interest is not charged until three years after graduation and then is assessed at the federal interest rate current at the time the loan was made. Loans are to be repaid during a ten-year period beginning three years after graduation.

### New York State Guaranteed Loans for State Residents

Students seeking New York State guaranteed loans should apply to the New York Higher Education Assistance Corporation, 111 Washington Avenue, Albany, New York 12210.

### Prizes

1. **FOR GENERAL EFFICIENCY.** Three prizes are given in commemoration of John Metcalfe Polk '99, who was an instructor in the Medical College at the time of his death on March 29, 1904. The prizes are presented at the end of the fourth year to the three students who have the highest academic standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. **EFFICIENCY IN OTOLARYNGOLOGY.** This prize is made available from the Arthur Palmer Fund which was provided by the members of the Division of Otolaryngology in honor of Dr. Palmer. The prize is given to the student in the graduating class who makes the best record in this specialty.

3. **FOR EFFICIENCY IN OBSTETRICS.** Two prizes, endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, are given to the two students of the graduating class who have made the best record in obstetrics.

4. **FOR EFFICIENCY IN GENERAL MEDICINE.** The income is offered as a prize for general efficiency in the Department of Medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital on April 24, 1926. The award is presented at the end of the fourth year to a member of the graduating class who has taken the full course of study at Cornell University Medical College.

5. **THE MARY ALDRICH FUND.** In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quintuplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than April 15.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

The William Mecklenburg Polk Prize for research for 1970 was awarded to Nicholas J. Hardin.

**6. THE WILLIAM C. THRO MEMORIAL FUND** was established in memory of William C. Thro '01 whose deep interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is given to the student who attains the best record in the clinical pathology course. The candidate for the prize is recommended by the Professor of Clinical Pathology.

**7. THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY** was established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, Dr. Herman L. Jacobus '39, who was killed in action in the Netherlands on September 28, 1944. The income is available annually to the student of the third- or fourth-year class who, in the opinion of the Department of Pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If, in any year, no student merits the distinction, the award will be withheld.

**8. THE BORDEN UNDERGRADUATE RESEARCH AWARD.** The terms of this grant by the Borden Company Foundation, Inc., provide for an award of \$500 to a fourth-year student during any one calendar year. The award will be made under the following terms and conditions:

A. The award is presented at graduation to the student whose research has been determined by the Medical College to be the most meritorious performed by a member of the graduating class. The originality of the research project and the thoroughness of the investigation are the major determinants in the selection of the recipient.

B. If the dean finds it inappropriate to make the award in any one year, the award will be deferred until the following year. Only one award, however, will be made during any one calendar year. To be considered for this prize, the theses must be submitted in quintuplicate to the Associate Dean's Office by April 15.

The Borden Prize for Research for the year 1970 was awarded to Peter Imre Antal Szilagyi.

**9. THE GOOD PHYSICIAN AWARD.** A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "The Good Physician."

**10. CHARLES L. HORN PRIZE FUND.** The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

**11. THE SAMUEL HOLLANDER PRIZE.** The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the committee on scholarships.

**12. THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.** Established in 1962 by Miss Berthe Manent, a graduate of the New York Hospital School of Nursing, in memory of Dr. Gustave J. Noback. Dr. Noback will be remembered for his great kindness and generosity to all his students, and also for his work in research and sculpture. The income of this fund is to be awarded yearly, at the discretion of the professor in charge, to a student who has performed outstanding work in anatomy.

**13. THE GUSTAVE J. NOBACK MEMORIAL FUND FOR ADVANCED STUDY AND TEACHING IN THE FIELD OF ANATOMY.** In 1963, a second fund to honor Dr. Gustave J. Noback was established by Miss Berthe Manent to help meet the needs of young men and women entering the field of anatomy for advanced study and teaching. The income is to be awarded yearly at the discretion of the professor in charge.

**14. THE T. CAMPBELL THOMPSON PRIZE FOR EXCELLENCE IN ORTHOPEDIC SURGERY.** A gift in recognition of Dr. Thompson's leadership in the teaching and practice of orthopedic surgery by his friends and associates on the staff of the Hospital for Special Surgery. The income is to be awarded yearly to that member of the graduating class of Cornell University Medical College who has demonstrated the greatest proficiency in orthopedic surgery. This award is to be made by the dean upon recommendation of the faculty staff members of the Hospital for Special Surgery.

**15. THE HAROLD G. WOLFF RESEARCH PRIZE** is presented in memory of the late, famed chief of neurology at The New York Hospital-Cornell Medical Center, Dr. Harold G. Wolff. The prize consists of \$300 and a selection of writings which represents Dr. Wolff's most creative scientific contributions.

## 30 Financial Aid

The award is given to the medical student of any class who has completed the most outstanding piece of original research in the neurological or behavioral sciences. A written report of the research should be submitted in quintuplicate to the Associate Dean's Office by April 15. The Harold G. Wolff Research Prize for the year 1970 was awarded to G. Frederick Wooten.

16. THE CLARENCE C. CORYELL PRIZE IN MEDICINE was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student having the highest general average in medicine up to the end of his junior year.

17. THE CLARENCE C. CORYELL PRIZE IN SURGERY was endowed by a bequest from Dr. Coryell, a graduate of the Medical College in 1903. The prize is to be awarded annually to the male student who attains the highest marks in surgery during his fourth year.

18. THE MITCHELL SPIVAK MEMORIAL PRIZE IN PEDIATRICS. Various donors contributed to the endowment for this prize as a memorial to the father of Jerry L. Spivak, class of 1964. The prize is awarded annually to the member of the graduating class who has made the best record in pediatrics.

19. NATIONAL FOUNDATION MERIT AWARD. The National Foundation offers a Merit Award of \$250 to the medical student who is judged by the Committee on Prizes in Research to have written the best thesis, or equivalent, on any subject relating to birth defects. The thesis should be submitted in quintuplicate by April 15. For 1970 the National Foundation Merit Award was given to Barry H. Smith.

20. THE GEORGE S. MEISTER PRIZE IN PEDIATRICS has been established in memory of Dr. George S. Meister '26, as an expression of the warm esteem in which he was

held. The prize consists of income derived annually from a fund contributed by members of his family, his close friends and associates, his classmates in chemical engineering at New York University, and his classmates in medicine at the Medical College. Awarded initially in 1967, the prize is given each year for efficiency in pediatrics to a member of the graduating class selected by the Department of Pediatrics.

21. THE SONDRAL LEE SHAW MEMORIAL FUND. The fund supports an annual prize given in memory of Sondra Lee Shaw. The prize is awarded to the medical student who has produced an outstanding research paper in the fields of neurology, pharmacology related to the nervous system, or behavioral science. The prize winner is chosen by the Committee on Prizes in Research.

22. THE SARAH O'LOUGHLIN FOLEY PRIZE IN CLINICAL MEDICINE. Dr. William T. Foley, clinical associate professor of medicine and a member of the class of 1937, established this annual prize of \$250 in memory of his mother. The recipient, a member of the graduating class, is selected for excellence in clinical medicine by the chairman of the Department of Medicine.

23. THE ANTHONY SETH WERNER M.D. MEMORIAL PRIZE was established by Dr. Aaron S. Werner to honor the memory of his son, Dr. Anthony Seth Werner, who was an assistant professor in the Department of Medicine at the time of his death in 1968. The prize is awarded annually to a member of the graduating class for excellence in the study of infectious diseases.

24. THE UPJOHN ACHIEVEMENT AWARD. This annual award to a member of the graduating class is given in recognition of outstanding achievement in research. Consisting of \$150 and a plaque, the award is supported by the Upjohn Company.

## Named Professorships

The following are the endowed, named professorships at Cornell University Medical College.

THE JAMES J. COLT PROFESSORSHIP OF UROLOGY IN SURGERY was established in 1970 through a gift from the James J. Colt Foundation. The first and present occupant of this chair is Dr. Victor F. Marshall, who is surgeon-in-charge of the James Buchanan Brody Urological Foundation at The New York Hospital.

THE LIVINGSTON FARRAND PROFESSORSHIP OF PUBLIC HEALTH AND PREVENTIVE MEDICINE, established in 1944 upon receipt of a gift from the Milbank Memorial Fund and the Rockefeller Foundation Fund, is named



for Livingston Farrand, who was the president of Cornell University at the time The New York Hospital-Cornell Medical Center was organized. The first and current occupant of the chair is Dr. Walsh McDermott, chairman of the Department of Public Health.

THE GIVEN FOUNDATION PROFESSORSHIP OF OBSTETRICS AND GYNECOLOGY was established in 1963 with funds from Irene Heinz Given and the John LaPorte Given Foundation. The foundation's gift was designed to provide endowed support for the chairman of the Department of Obstetrics' and Gynecology. Dr. Fritz Fuchs, present occupant of the chair, has as his principal research interest the endocrinology and physiology of human reproduction.

THE ROLAND HARRIMAN PROFESSORSHIP OF CARDIO-VASCULAR MEDICINE was established with a gift from Mr. and Mrs. E. Roland Harriman in 1963. The first and present occupant of the chair is Dr. Thomas Killip III, head of the Division of Cardiology in the Department of Medicine. Dr. Killip, a 1952 graduate of the Medical College, has specialized in research studies aimed at reducing mortality from myocardial infarction.

THE BARKLIE McKEE HENRY PROFESSORSHIP OF PSYCHIATRY, established in 1968, honors the memory of the late Mr. Henry, who was president of The Society of the New York Hospital in 1940 and a moving force in the development of The New York Hospital-Cornell Medical Center's Department of Psychiatry into the eminent treatment, research, and teaching unit it is today. Dr. William T. Lhamon, chairman of the department and professor of psychiatry since his appointment at Cornell in 1962, is the first occupant of the chair.

THE JOSEPH C. HINSEY PROFESSORSHIP OF ANATOMY, established in 1966 upon receipt of a gift from Nicholas Noyes, is the only professorship named for a living member of the faculty. A former dean of Cornell University Medical College, Dr. Hinsey was director of the Center until his retirement in 1966. He is an emeritus professor in the Department of Neuroanatomy of the Medical College. The first and present occupant of this chair is Dr. Roy C. Swan, a 1947 graduate of the Medical College, who has been professor of anatomy and chairman of the Department of Anatomy since 1959.

THE ISRAEL ROGOSIN PROFESSORSHIP OF BIOCHEMISTRY was established in 1965 when Mr. Rogosin made a substantial gift to The New York Hospital-Cornell Medical Center's Fund for Medical Progress. Dr. Vincent du Vigneaud, who received the Nobel Prize in chemistry in 1955, was Cornell's first Israel Rogosin professor. The chair has been held since Dr. du Vigneaud's retirement in 1967 by Dr. Alton Meister, current chairman of the Department of Biochemistry, whose research centers on the chemistry and intermediary metabolism of amino acids.

THE LEWIS ATTERBURY STIMSON PROFESSORSHIP OF SURGERY was established in 1935 by an anonymous gift presented to the Medical College

## 32 Forms of Bequests

in memory of Dr. Stimson, who was Cornell's first professor of surgery. A second gift was added to the endowment in 1944 by the late Candace C. Stimson, Dr. Stimson's daughter. The present Lewis Atterbury Stimson Professor of Surgery is Dr. C. Walton Lillehei. He succeeded Dr. Frank Glenn upon Dr. Glenn's retirement in 1967.

THE ANNE PARRISH TITZELL PROFESSORSHIP IN NEUROLOGY was established in 1958 by a substantial gift from a grateful patient of the late Dr. Harold G. Wolff, head of neurology at The New York Hospital-Cornell Medical Center from 1932 until his death in 1962. Dr. Wolff's successor to the chair is Dr. Fred Plum, current chairman of the Department of Neurology.

THE MAXWELL M. UPSON PROFESSORSHIP OF PHYSIOLOGY AND BIOPHYSICS, established in 1970, honors the memory of Mr. Upson who had been a member of the Cornell University Board of Trustees for thirty-five years. The first and present occupant of this chair is Dr. Robert F. Pitts, who has been chairman of the Department of Physiology and Biophysics since 1950.

In addition to the professorships described above, a chair, occupied by Dr. Alexander G. Bearn, chairman of the Department of Medicine, has been endowed by Mr. Rogosin but not yet named.

### William D. Stubenbord Visiting Professorships

The Stubenbord professorships were established in 1968 with an endowment from the Louis Calder Foundation "in memory of Louis Calder, Sr., and Louis Calder, Jr., and in recognition of the outstanding professional services and long friendship of William D. Stubenbord '31 for them and members of their families." The departments of the College will, in rotation, be host to visiting scholars. Each visiting professor will reside at the College for approximately one week and in that time will deliver a special lecture and hold seminars with faculty and students.

### Form of Bequests

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$..... for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the Hospital, the language may be: "I give and bequeath to The Society of the New York Hospital, the sum of \$...."

If for the Center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$...."

## Alpha Omega Alpha

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship and satisfactory moral qualifications. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four-year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class may be elected. Open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth are considered aspects of true scholarship and indispensable to it.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1970 were Louis E. Bartoshesky, Randolph S. Charlton, J. Glenn Haines, Richard C. Karl, Jr., Richard A. Katz, John W. Kirk, Clifford R. Miller, Robert M. Quinlan, C. David Richards, Edgar C. Schick, Jr., Stuart F. Seides, Thomas S. Thornhill, G. Frederick Wooten, Jr.

## Sigma Xi

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University in Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

## Cornell University Medical College Alumni Association, Inc.

### Officers

Albert L. Rubin '50, President  
Walter F. Riker, Jr., M'43, Vice President  
Frederic T. Kirkham, Jr., '47, Secretary  
Henry Mannix, Jr., '50, Treasurer  
William A. Barnes '37, Chairman, Medical College Fund

### Directors

*Three-year term:* Irving S. Wright '26; John T. Queenan '58  
*Two-year term:* C. Stephen Connolly '59; George E. Eddins, Jr., '45;  
Eugene M. Lance '58; Alexander G. Reeves '63

### 34 Military Advisers

*One-year term:* Richard M. Bergland '58; Lawrence Scherr '57

*Executive Secretary:* Carol Ashley

#### Editorial Board of the *Quarterly*

Lawrence Scherr '57, Editor

Irwin Merkatz '58, Associate Editor

Arthur H. Hayes, Jr. '64, Associate Editor

Ari Kiev '58, Associate Editor

Marvin Raeburn, Managing Editor

William W. Goodhue, Graduate Student Editor

Gene Resnick, Student Editor

Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association. Dues are \$10 a year except for members of the three most recent graduating classes, whose dues are \$3 a year. The activities of the Association include an annual reunion and banquet, student and faculty parties, meetings and panel discussions on topics of general interest, and a placement service. The Association maintains an office in Room C-140. An annual appeal for unrestricted funds for the Medical College is made to the members of the Association.

### Military Advisers

The following members of the faculty are available to students for consultation on the program offered by the various military units:

Carl A. Berntsen, Clinical Assistant Professor of Medicine—Navy

August H. Groeschel, Assistant Professor of Public Health—Army

Paul A. Skudder, Clinical Associate Professor of Surgery—Coordinator of the Medical Education for National Defense Program

## Educational Policies and Plan of Instruction

The Medical College is divided into seventeen departments. Seven of the departments are primarily concerned with the sciences underlying clinical medicine; they are the Departments of Anatomy, Biochemistry, Microbiology, Pathology, Pharmacology, Physiology, and Public Health. Ten departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. They are the Departments of Anesthesiology, Medicine, Neurology, Obstetrics and Gynecology, Ophthalmology, Otorhinolaryngology, Pediatrics, Psychiatry, Radiology, and Surgery.

The heads of major departments together with the President of the University and the dean, constitute the executive faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. The courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation with the degree of Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine who are not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study in the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one year, and often many more years, of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not a requirement for graduation, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of great technical proficiency in the various special fields of clinical medicine is not expected during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, neural sciences, and introductory medicine, including the basic elements of physical examination, interviewing techniques, and the sociological determinants of disease. Clinical conferences are presented in these courses to

## 36 Plan of Instruction

illustrate the application of the basic sciences to clinical medicine. A series of weekly interdisciplinary sessions explore a wide range of medical topics, again emphasizing the interrelationships of the basic sciences to each other and to clinical medicine.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third-year class meets one hour daily for clinical lectures and demonstrations.

**ELECTIVE TIME.** In addition to scheduled free time in the curriculum of the first three years, the summers following the first and second years are free and may be used to acquire or to further experience in investigative work if a student wishes.

**THIRD-YEAR CURRICULUM.** Clerkships of seven to twelve weeks' duration in the forty-five week (September through July), third-year curriculum provide a sound basic introduction to all the major clinical fields. When a student has completed this clinical "core" curriculum, he is sufficiently acquainted with the various clinical specialties to have identified his primary areas of interest, both in the clinical and basic science fields. Accordingly, he is prepared to plan an educational program for his final medical school year which is best suited to his interests and needs.

**FOURTH-YEAR CURRICULUM.** The fourth-year program is entirely elective. Thirty-five weeks long, it is divided into elective periods which match the modules of the third year. This enables students who have sound educational reasons to defer certain modules of the third-year core curriculum until the final year.

In the spring of the third year each student chooses a senior faculty member as an adviser to help him in planning his fourth-year program. Numerous elective opportunities available in The Center are described in the *Catalogue of Electives*. Other electives in The Center or in other educational institutions may be arranged with the approval of the student's elective adviser.

**SUMMER FELLOWSHIPS.** Several fellowships paying a stipend of \$750 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

**ONE-YEAR RESEARCH FELLOWSHIPS.** Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

## Coordinated Doctor of Medicine and Doctor of Philosophy Programs

In association with the Cornell University Graduate School of Medical Sciences, the Medical College offers a coordinated M.D.-Ph.D. degree program through which selected applicants may satisfy requirements for both degrees in a minimum of six years. Although medical students may be admitted to the program at any time during their regular medical education, interested applicants should apply for admission to the Graduate School of Medical Sciences at the same time that they apply for admission to the Medical College.

Under the coordinated program, a student generally completes the first two years of the preclinical curriculum in the basic sciences, after which he may spend two years as a full-time graduate student in one or more of the eleven biomedical fields in which a Ph.D. degree program is offered. By satisfactorily passing a special examination administered by the Graduate School of Medical Sciences on the basic sciences taken during the first two years, the student can also have transferred a maximum of two units of residence credit (the equivalent of one year) from the Medical College to the Graduate School.

By another approach to the coordinated M.D.-Ph.D. program, a medical student may complete the first three years of the required M.D. curriculum and, having successfully applied for admission to the Graduate School of Medical Sciences during the third year, may complete the fourth elective year toward the M.D. degree while matriculated and in residence in the Graduate School of Medical Sciences as a candidate for the Ph.D. degree. Under this plan, the student will receive the M.D. degree at the end of the fourth year, and he will have earned two units of residence credit during this fourth year toward the Ph.D. requirements. In addition, the student is eligible for transfer of a maximum of two units of residence credit to the Graduate School of Medical Sciences if he performs satisfactorily on a special evaluation examination.

For further information, refer to the *Announcement of the Graduate School of Medical Sciences*.

# Administration

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## The New York Hospital-Cornell Medical Center

The Center was formed by an agreement between The Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of four governors of The Society of the New York Hospital, four representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The President of The New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

*The New York Hospital-Cornell Medical Center:* E. Hugh Luckey, president, and August H. Groeschel, vice president

*Representing the Board of Trustees of Cornell University:* Dale R. Corson, chairman of the Joint Administrative Board; Arthur H. Dean; Stanton Griffis; Robert W. Purcell

*Representing the Board of Governors of The Society of The New York Hospital:* Kenneth H. Hannan; Francis Kernan; Frederick K. Trask, Jr.; John Hay Whitney

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**THE COLLEGE COUNCIL.** For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.

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J. Robert Buchanan, ex officio  
James L. Curtis, ex officio  
Lawrence W. Hanlon, ex officio  
Arthur H. Hayes, Jr., ex officio  
E. Hugh Luckey, ex officio  
Fletcher McDowell, ex officio  
Thomas H. Meikle, Jr., ex officio  
Charles A. Santos-Buch, ex officio  
Lawrence Scherr, ex officio

# Faculty of the Medical College<sup>1</sup>

## Emeritus Professors

- Arthur F. Anderson, M.D. [1930; 1962], *Clinical Professor of Pediatrics*  
 David P. Barr, M.D. [1916; 1957], *Professor of Medicine*  
 Leona Baumgartner, M.D. [1935; 1968], *Clinical Professor of Public Health; Clinical Professor of Pediatrics*  
 Alexander Brunschwig, M.D. [1947; 1967], *Clinical Professor of Surgery*  
 McKeen Cattell, M.D. [1925; 1959], *Professor of Pharmacology*  
 Anthony C. Cipollaro, M.D. [1948; 1966], *Clinical Professor of Medicine (Dermatology)*  
 Lloyd F. Craver, M.D. [1934; 1959], *Clinical Professor of Medicine*  
 Margaret Dann, M.D. [1938; 1967], *Professor of Pediatrics*  
 Harold W. K. Dargeon, M.D. [1947; 1963], *Clinical Professor of Pediatrics*  
 Paul F. De Gara, M.D. [1941; 1970], *Clinical Professor of Pediatrics*  
 John E. Deitrick, M.D. [1935; 1970], *Professor of Medicine*  
 Edward H. Dennen, M.D. [1933; 1965], *Clinical Professor of Obstetrics and Gynecology*  
 Oskar Diethelm, M.D. [1936; 1962], *Professor of Psychiatry*  
 R. Gordon Douglas, M.D. [1932; 1965], *Professor of Obstetrics and Gynecology*  
 Vincent du Vigneaud, Ph.D. [1938; 1967], *Professor of Biochemistry*  
 Dayton J. Edwards, Ph.D. [1918; 1950], *Professor of Physiology*  
 Claude E. Forkner, M.D. [1938; 1966], *Clinical Professor of Medicine*  
 Richard H. Freyberg, M.D. [1944; 1969], *Clinical Professor of Medicine*  
 Frank Glenn, M.D. [1932; 1968], *Professor of Surgery*  
 Harry Gold, M.D. [1922; 1965], *Clinical Professor of Pharmacology*  
 Phyllis Greenacre, M.D. [1932; 1962], *Clinical Professor of Psychiatry*  
 Connie M. Guion, M.D. [1924; 1951], *Clinical Professor of Medicine*  
 Edwin T. Hauser, M.D. [1935; 1961], *Clinical Professor of Medicine*  
 Louis Hausman, M.D. [1923; 1959], *Clinical Professor of Medicine (Neurology)*  
 Joseph C. Hinsey, Ph.D. [1936; 1967], *Professor of Neuroanatomy*  
 Samuel Z. Levine, M.D. [1924; 1961], *Professor of Pediatrics*  
 Asa L. Lincoln, M.D. [1921; 1959], *Clinical Professor of Medicine*  
 William F. MacFee, M.D. [1936; 1958], *Clinical Professor of Surgery*  
 Charles M. McLane, M.D. [1932; 1968], *Clinical Professor of Obstetrics and Gynecology*  
 Ade T. Milhorat, M.D. [1933; 1964], *Clinical Professor of Medicine*  
 Charles V. Morrill, Ph.D. [1915; 1953], *Professor of Anatomy*  
 Joseph N. Nathanson, M.D.C.M. [1926; 1965], *Clinical Professor of Obstetrics and Gynecology*  
 Eugene I. Opie, M.D. [1932; 1941], *Professor of Pathology*  
 Ralph F. Phillips, M.D. [1950; 1968], *Clinical Professor of Radiology*  
 Paul Reznikoff, M.D. [1924; 1961], *Clinical Professor of Medicine*  
 Wilson G. Smillie, M.D. [1937; 1955], *Professor of Public Health*  
 Carl H. Smith, M.D. [1928; 1964], *Clinical Professor of Pediatrics*  
 Frank R. Smith, M.D. [1932; 1965], *Clinical Professor of Obstetrics and Gynecology*  
 Israel Steinberg, M.D. [1940; 1967], *Clinical Professor of Radiology*  
 Lewis D. Stevenson, M.D. [1922; 1957], *Clinical Professor of Medicine (Neurology)*  
 Harold J. Stewart, M.D. [1932; 1961], *Clinical Professor of Medicine*  
 Philip M. Stimson, M.D. [1919; 1956], *Clinical Professor of Pediatrics*  
 John Y. Sugg, Ph.D. [1932; 1969], *Professor of Microbiology*  
 T. Campbell Thompson, M.D. [1951; 1968], *Clinical Professor of Surgery (Orthopedics)*  
 Edward Tolstoi, M.D. [1927; 1962], *Clinical Professor of Medicine*  
 Preston A. Wade, M.D. [1927; 1968], *Clinical Professor of Surgery (Acting Chairman). Acting Surgeon-in-Chief, New York Hospital.*  
 James H. Wall, M.D. [1933; 1965], *Clinical Professor of Psychiatry*  
 Bruce P. Webster, M.D.C.M. [1932; 1967], *Clinical Professor of Medicine*  
 May G. Wilson, M.D. [1918; 1959], *Clinical Professor of Pediatrics*  
 Irving S. Wright, M.D. [1946; 1967], *Clinical Professor of Medicine*

1. The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

## Professors

- Benjamin Alexander, *Clinical Professor of Medicine*. A.B. 1930, M.D. 1934, Harvard. [1966]
- Joseph F. Artusio, Jr., *Professor of Anesthesiology (Chairman)*. Anesthesiologist-in-Chief, New York Hospital. B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957]
- Peter A. McF. Auld, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. B.A. 1948, Toronto; M.D.C.M. 1952, McGill. [1962; 1970]
- William A. Barnes, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1933, C.C.N.Y.; M.D. 1937, Cornell. [1938; 1967]
- Alexander G. Bearn, *Professor of Medicine (Chairman)*. Physician-in-chief, New York Hospital. M.B., B.S. 1946, M.D. 1951, University of London; F.R.C.P. (Edin. and Lond.) [1966]
- Edward J. Beattie, Jr., *Professor of Surgery*. Chairman and Attending Surgeon, Memorial Hospital. B.A. 1939, Princeton; M.D. 1943, Harvard. [1966; 1967]
- E. Lovell Becker, *Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1944, Washington and Lee; M.D. 1948, Cincinnati. [1957; 1969]
- Joseph H. Burchenal, *Professor of Medicine*. Attending Physician, Memorial Hospital. M.D. 1937, Pennsylvania. [1949; 1952]
- John J. Burns, *Visiting Professor of Pharmacology*. B.S. 1942, Queens; M.A. 1948, Ph.D. 1950, Columbia. [1968]
- Eric T. Carlson, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1944, Wesleyan; M.D. 1950, Cornell. [1952; 1970]
- Charles L. Christian, *Professor of Medicine*. Attending Physician, New York Hospital; Physician-in-Chief, Hospital for Special Surgery, B.A. 1949, University of Wichita; M.D. 1953, Case Western Reserve. [1970]
- William Cooper, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, New York University; M.D. 1933, Long Island College of Medicine. [1951; 1966]
- Giulio J. D'Angio, *Professor of Radiology*. Chairman, Department of Radiation Therapy, Memorial Hospital. A.B. 1943, Columbia; M.D. 1945, Harvard. [1968]
- Farrington Daniels, Jr., *Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital. B.A. 1940, M.A. 1942, Wisconsin; M.D. 1943, M.P.H. 1952, Harvard. [1962; 1969]
- Thomas F. Dillon, *Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1947, Georgetown. [1952; 1969]
- John W. Draper, *Clinical Professor of Surgery (Urology)*. Attending Surgeon (Urology), New York Hospital. M.A. 1927, Dartmouth; M.D. 1931, Cornell. [1935; 1966]
- Edward A. Dunlap, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon (Ophthalmology), New York Hospital. B.S. 1932, Westminster; M.D. 1935, Western Reserve. [1944; 1968]
- Henry S. Dunning, *Clinical Professor of Neurology*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, (Westchester Division). A.B. 1927, M.D. 1930, Cornell. [1932; 1961]
- Murray Dworetzky, *Clinical Professor of Medicine (Allergy)*. Attending Physician, New York Hospital. A.B. 1938, Pennsylvania; M.D. 1942, Long Island College of Medicine; M.S. 1950, Minnesota. [1951; 1966]
- John Edwards, *Visiting Professor of Genetics in Pediatrics*. Investigator, New York Blood Center. B.A. 1949, M.B. B.Chir., Cambridge; M.R.C.P. 1956, London. [1968]
- John T. Ellis, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. B.A. 1942, University of Texas; M.D. 1945, Northwestern. [1948; 1968]
- Mary Allen Engle, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1942, Baylor; M.D. 1945, Johns Hopkins. [1948; 1969]
- Ralph L. Engle, Jr., *Professor of Medicine*. Attending Physician; Director, Division of Medical Systems and Computer Science, New York Hospital. B.S. 1942, University of Florida; M.D. 1945, Johns Hopkins. [1949; 1969]
- John A. Evans, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953]
- Aaron Feder, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1938, Maryland. [1941; 1965]
- Fritz F. Fuchs, *Given Foundation Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. M.D. 1944, Dr. Med. Sci., University of Copenhagen. [1965]
- Ralph W. Gause, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962]
- Sanford Goldstone, *Professor of Psychology in Psychiatry*. B.S. 1947, C.C.N.Y.; Ph.D. 1953, Duke. [1967]
- Dan M. Gordon, *Clinical Professor of Ophthalmology*. Attending Ophthalmologist, New York Hospital. B.S. 1929, M.D. 1932, Michigan. [1944; 1970]

- Roger L. Greif, *Professor of Physiology*. B.S. 1937, Haverford; M.D. 1941, Johns Hopkins. [1953; 1965]
- Francis J. Hamilton, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962]
- Milton Helpert, *Visiting Professor of Pathology*. B.S. 1922, C.C.N.Y.; M.D. 1926, Cornell. [1931; 1966]
- Roy Hertz, *Clinical Professor of Obstetrics and Gynecology (Endocrinology)*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1930, Ph.D. 1933, M.D. 1939, Wisconsin; M.P.H. 1940, Johns Hopkins. [1970]
- Elliot Hochstein, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, Columbia; M.D. 1932, New York University. [1952; 1964]
- Cranston W. Holman, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1927, M.D. 1931, Stanford. [1932; 1958]
- Frank L. Horsfall, Jr., *Professor of Medicine*. President and Director, Sloan-Kettering Institute; Director, Sloan-Kettering Division of Cornell University Graduate School of Medical Sciences. B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960]
- William S. Howland, *Professor of Anesthesiology*. Attending Anesthesiologist and Chairman, Department of Anesthesiology, Memorial Hospital. B.S. 1941, Notre Dame; M.D. 1944, Columbia. [1954; 1968]
- William T. Ingram, *Visiting Professor of Public Health Engineering*. A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957]
- Donald G. Johnson, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Maine; M.D. 1940, Yale. [1942; 1965]
- Kenneth G. Johnson, *Professor of Public Health in Community Medicine*. B.S. 1944, Manhattan; M.D. 1950, S.U.N.Y. (New York City). [1967; 1970]
- William H. Kammerer, *Clinical Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. B.S. 1931, M.D. 1935, Indiana. [1941; 1969]
- B. H. Kean, *Clinical Professor of Medicine (Tropical Medicine)*. Attending Physician, New York Hospital. A.B. 1933, University of California (Berkeley); M.D. 1937, Columbia. [1952; 1965]
- Aaron Kellner, *Clinical Professor of Pathology*. Attending Pathologist, New York Hospital; Director, New York Blood Center. B.A. 1934, Yeshiva College; M.S. 1936, Columbia; M.D. 1939, University of Chicago. [1946; 1968]
- John G. Kidd, *Professor of Pathology*. A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944]
- Thomas Killip III, *Roland Harriman Professor of Medicine*. Attending Physician, New York Hospital. B.A. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1968]
- Elmer E. Kramer, *Professor of Obstetrics and Gynecology; Clinical Professor of Pathology*. Attending Obstetrician and Gynecologist; Attending Pathologist, New York Hospital. B.S. 1935, M.D. 1938, Tulane. [1946; 1965]
- Milton I. Levine, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital. B.S. 1923, C.C.N.Y.; M.D. 1927, Cornell. [1933; 1967]
- Allyn B. Ley, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. A.B. 1939, Dartmouth; M.D. 1942, Columbia. [1947; 1963]
- William T. Lhamon, *Barklie McKee Henry Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. A.B. 1936, M.D. 1940, Stanford. [1962]
- C. Walton Lillehei, *Lewis Atterbury Stimson Professor of Surgery*. Attending Surgeon in Charge of Thoracic and Cardiovascular Surgery, New York Hospital. B.S. 1939, M.B. 1941, M.D. 1942, M.S. 1951, University of Minnesota. [1967]
- E. Hugh Luckey, *Professor of Medicine*. President, New York Hospital-Cornell Medical Center; Vice President, New York Hospital; Vice President for Medical Affairs, Cornell University; Attending Physician, New York Hospital. B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1966]
- John MacLeod, *Professor of Anatomy*. A.B. 1934, M.Sc. 1937, New York University; Ph.D. 1941, Cornell. [1941; 1969]
- Benjamin E. Marbury, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1939, B.S. 1942, Missouri; M.S. 1941, Louisiana State; M.D. 1944, Washington University. [1948; 1968]
- Philip D. Marsden, *Visiting Professor of Public Health*. M.B.B.S. 1956, University College Hospital; M.D. 1965, London School of Hygiene and Tropical Medicine. [1967]
- Victor F. Marshall, *John J. Colt Professor of Urology in Surgery*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. M.D. 1937, Virginia. [1938; 1957]
- James F. Masterson, Jr., *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. M.D. 1951, Jefferson. [1953; 1970]
- Wallace W. McCrory, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital. B.S. 1941, M.D. 1944, University of Wisconsin. [1961]

## 44 Faculty

- Walsh McDermott, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955]
- Fletcher H. McDowell, *Associate Dean; Professor of Neurology*. Attending Neurologist, New York Hospital; Consulting Associate Neurologist, Memorial Hospital. A.B. 1944; Dartmouth; M.D. 1947, Cornell. [1950; 1968]
- Alton Meister, *Israel Rogosin Professor of Biochemistry (Chairman)*. S.B. 1942, Harvard; M.D. 1945, Cornell. [1947; 1967]
- Robert C. Mellors, *Professor of Pathology*. Associate Attending Pathologist, New York Hospital; Director of Laboratory and Pathology, Hospital for Special Surgery. A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961]
- Theodore R. Miller, *Clinical Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D. 1933, Temple. [1952; 1970]
- Walter Modell, *Professor of Pharmacology*. B.S. 1928, C.C.N.Y.; M.D. 1932, Cornell. [1932; 1967]
- James A. Moore, *Professor of Otorhinolaryngology (Acting Chairman)*. Attending Surgeon in Charge of Otorhinolaryngology, New York Hospital. B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961]
- S. W. Moore, *Professor of Surgery*. Attending Surgeon, New York Hospital. B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956]
- George E. Murphy, *Professor of Pathology*. Attending Pathologist, New York Hospital. A.B. 1939, Kansas; M.D. 1943, Pennsylvania. [1953; 1968]
- M. Lois Murphy, *Professor of Pediatrics*. Attending Pediatrician, Memorial Hospital. A.B. 1939, M.D. 1944, Nebraska. [1952; 1970]
- Carl Muschenheim, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1928, M.D. 1931, Columbia. [1933; 1960]
- W. P. Laird Myers, *Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. B.S. 1943, Yale; M.D. 1945, Columbia; M.S. (Med.) 1952, Minnesota. [1953; 1968]
- Robert L. Patterson, Jr., *Professor of Surgery (Orthopedics)*. Attending Surgeon-in-Charge (Orthopedics), New York Hospital; Surgeon-in-Chief, Hospital for Special Surgery. A.B. 1928, Georgia; M.D. 1932, Harvard. [1951; 1963]
- Ralph E. Peterson, *Professor of Medicine*. Attending Physician, New York Hospital. B.S. 1940, M.S. 1941; Kansas State; M.D. 1946, Columbia. [1958; 1968]
- Robert F. Pitts, *Maxwell M. Upson Professor of Physiology and Biophysics (Chairman)*. B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950]
- Fred Plum, *Anne Parrish Titzell Professor of Neurology (Chairman)*. Neurologist-in-Chief, New York Hospital. B.A. 1944, Dartmouth; M.D. 1947, Cornell. [1963]
- Aaron S. Posner, *Professor of Biochemistry*. B.S. 1941, Rutgers; M.S. 1949, Polytechnic Institute of Brooklyn; Ph.D. 1954, University of Liege. [1963; 1969]
- Jerome B. Posner, *Professor of Neurology*. Attending Neurologist, New York Hospital. B.S. 1951, M.D. 1955, Washington. [1963; 1970]
- Douglas G. Potts, *Professor of Radiology*. Attending Radiologist, New York Hospital. B.Sc. Canterbury University College, New Zealand; M.B., Ch. B. 1951, University of Otago, New Zealand; M.D. 1960, New Zealand. [1967; 1970]
- Julian R. Rachele, *Professor of Biochemistry*. B.A. 1934, M.S. 1935, Ph.D. 1939, New York University. [1939; 1965]
- Bronson S. Ray, *Clinical Professor of Surgery (Neurosurgery)*. Attending Surgeon in Charge of Neurosurgery, New York Hospital; Consulting Neurosurgeon, New York Hospital, Westchester Division; Consulting Neurosurgeon, Memorial Hospital. B.S. 1924, Franklin; M.D. 1928, Northwestern. [1932; 1948]
- George G. Reader, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Cornell. [1946; 1957]
- Walter F. Riker, Jr., *Professor of Pharmacology (Chairman)*. B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956]
- Sidney Rothbard, *Professor of Medicine*. Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. A.B. 1931, Colgate; M.D. 1935, Rochester. [1951; 1969]
- Albert L. Rubin, *Professor of Biochemistry (Surgery); Professor of Surgery (Biochemistry)*. Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1969]
- William F. Scherer, *Professor of Microbiology (Chairman)*. M.D. 1947, Rochester. [1962]
- William N. Schoenfeld, *Clinical Professor of Psychiatry in Psychiatry*. B.S. 1937, C.C.N.Y.; A.M. 1939, Ph.D. 1942, Columbia. [1966]
- Donald M. Shafer, *Clinical Professor of Ophthalmology (Acting Chairman)*. Attending Ophthalmologist, New York Hospital. B.A. 1932, Columbia; M.D. 1936, Cornell. [1958; 1969]
- Richard M. Silberstein, *Clinical Professor of Psychiatry*. A.B. 1944, Dartmouth; M.D. 1946, Pittsburgh. [1968]
- J. James Smith, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1934, St. Peter's; M.D. 1938, Cornell. [1939; 1967]

- Lee R. Straub, *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D.C.M. 1940, McGill. [1951; 1962]
- Roy C. Swan, *Joseph C. Hinsey Professor of Anatomy (Chairman)*. A.B. 1941; M.D. 1947, Cornell. [1948; 1959]
- Harold L. Temple, *Clinical Professor of Radiology*. Attending Radiologist, New York Hospital. B.S. 1932, M.D. 1935, University of Nebraska. [1941; 1946]
- David D. Thompson, *Professor of Medicine*. Attending Physician, New York Hospital. A.B. 1943, M.D. 1946, Cornell. [1947; 1964]
- Bjorn Thorbjarnarson, *Clinical Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1947, University of Iceland. [1949; 1968]
- Marjorie J. Topkins, *Clinical Professor of Anesthesiology*. Attending Anesthesiologist, New York Hospital. A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1970]
- Douglas P. Torre, *Clinical Professor of Medicine (Dermatology)*. Attending Physician, New York Hospital; Consulting Dermatologist, Memorial Hospital. B.S. 1940, M.D. 1943, Tulane. [1950; 1966]
- Alan Van Poznak, *Clinical Professor of Anesthesiology; Clinical Associate Professor of Pharmacology*. Attending Anesthesiologist, New York Hospital. A.B. 1948, M.D. 1952, Cornell. [1955; 1970]
- Robert F. Watson, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. M.D. 1934, Virginia. [1946; 1960]
- Willet F. Whitmore, Jr., *Clinical Professor of Surgery (Urology)*. Attending Surgeon, Memorial Hospital. B.S. 1938, Rutgers; M.D. 1942, Cornell. [1943; 1967]
- John C. Whitsell II, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1950, Grinnell; M.D. 1954, Washington University. [1955; 1970]
- Otto A. Will, Jr., *Clinical Professor of Psychiatry*. B.A. 1933, M.D. 1940, Stanford. [1968]
- Philip D. Wilson, Jr., *Clinical Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. M.D. 1944, Columbia. [1951; 1968]
- Erich H. Windhager, *Professor of Physiology*. M.D. 1954, University of Vienna. [1958; 1969]
- Myron Winick, *Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1951, Columbia; M.S. 1952, Illinois; M.D. 1956, S.U.N.Y. (Brooklyn). [1958; 1970]

## Associate Professors

- Seymour Advocate, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1937, Brooklyn; M.A. 1938, Illinois; M.D. 1950, Washington. [1953; 1970]
- Fred H. Allen, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1934, Amherst; M.D. 1938, Harvard. [1963]
- Lucien I. Arditi, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1950, Louisiana State; M.D. 1954, Washington University. [1955; 1970]
- Amir Askari, *Associate Professor of Pharmacology*. B.S. 1953, University of Dubuque; M.S. 1956, New York University; Ph.D. 1960, Cornell. [1960; 1967]
- Sam C. Atkinson, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.A. 1937, Mississippi; M.D. 1941, Tulane. [1950; 1967]
- Sulamita Balagura-Baruch, *Associate Professor of Physiology*. M.D. 1959, University del Valle (Colombia). [1962; 1970]
- Hugh R. K. Barber, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Obstetrician, Memorial Hospital. B.A. 1941, M.D. 1944, Colombia. [1954; 1970]
- Lloyd T. Barnes, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Pennsylvania State College; M.D. 1938, Pennsylvania. [1953; 1969]
- Jeremiah A. Barondess, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1949, Johns Hopkins. [1953; 1962]
- Charles H. Bauer, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1949, Columbia; M.D. 1953, Harvard. [1961; 1967]
- Carl G. Becker, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1957, Yale; M.D. 1961, Cornell. [1962; 1966]
- David V. Becker, *Associate Professor of Medicine; Associate Professor of Radiology*. Associate Attending Physician, New York Hospital; Assistant Attending Radiologist, New York Hospital. A.B. 1943, M.A. 1944, Columbia; M.D. 1948, New York University. [1954; 1961]
- Carl Beling, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. M.D. 1957, Karolinska Institute, Stockholm. [1965; 1969]

## 46 Faculty

- Dorothea Bennett, *Associate Professor of Anatomy*. A.B. 1951, Barnard; Ph.D. 1956, Columbia. [1962; 1965]
- Richard S. Benua, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1943, Case Western Reserve; M.D. 1946, Johns Hopkins; M.S. 1952, Minnesota. [1970]
- Samuel R. Berenberg, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1931, Amherst; M.D. 1935, Vermont. [1947; 1961]
- Richard M. Bergland, *Associate Professor of Surgery (Neurosurgery)*. B.S. 1954, Wheaton; M.D. 1958, Cornell. [1962; 1970]
- Sheldon Blackman, *Clinical Associate Professor of Psychology in Psychiatry*. A.B. 1956, Princeton; M.A. 1958, Ph.D. 1960, Ohio State. [1968; 1970]
- Jack H. Bloch, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.A. 1952; M.D. 1957, U.C.L.A.; Ph.D. 1967, Minnesota. [1968; 1970]
- Roy W. Bonsnes, *Associate Professor of Biochemistry; Associate Professor of Biochemistry in Obstetrics and Gynecology*. B.S. 1930, Connecticut; Ph.D. 1939, Yale. [1941; 1950]
- Robert J. Booher, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1934, M.D. 1938, Creighton. [1954; 1970]
- Norman Brachfeld, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1949, Columbia; M.D. 1953, Washington University. [1959; 1968]
- David G. Bragg, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1955, Stanford; M.D. Oregon. [1966; 1970]
- William A. Briscoe, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1939, New College, Oxford, England; M.A. 1941, B.M., B.Ch. 1942, D.M. 1951, Oxford University. [1969]
- Dana C. Brooks, *Associate Professor of Anatomy*. B.E.E. 1949, M.D. 1957, Cornell. [1955; 1965]
- J. Robert Buchanan, *Dean; Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1950, Amherst; M.D. 1954, Cornell. [1956; 1967]
- Myron I. Buchman, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Physician, New York Hospital. A.B. 1943, Lehigh; M.D. 1946, Johns Hopkins. [1952; 1966]
- Charles L. Burstein, *Clinical Associate Professor of Anesthesiology*. Associate Attending Anesthesiologist, New York Hospital; Director of Anesthesiology, Hospital for Special Surgery. B.S. 1928, New York University; M.D. 1934, University of Paris. [1955; 1962]
- William G. Cahan, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1935, Harvard; M.D. 1939, Columbia. [1950; 1966]
- Rolla D. Campbell, Jr., *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1942, Harvard; M.D. 1945, Columbia. [1956; 1965]
- Henry A. Carr, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1931, Princeton; M.D. 1935, Cornell. [1947; 1963]
- Walter W. Y. Chan, *Associate Professor of Pharmacology*. B.A. 1956, Wisconsin; Ph.D. 1961, Columbia. [1960; 1970]
- Aaron D. Chaves, *Clinical Associate Professor of Medicine; Clinical Assistant Professor of Public Health*. Associate Attending Physician, New York Hospital. B.S. 1931, William and Mary; M.D. 1935, New York University. [1946; 1966]
- Florence Chien Hwa-Chu, *Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1942, National Medical College of Shanghai. [1956; 1969]
- William N. Christenson, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1949, North Carolina; M.D. 1948, Johns Hopkins. [1953; 1965]
- Bayard D. Clarkson, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1948, Yale; M.D. 1952, Columbia. [1958; 1968]
- Hartwig Cleve, *Associate Professor of Medicine*. A.B. 1946, Helmstedt, Germany; M.D. 1953, University of Gottingen. [1968]
- George O. Clifford, *Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Attending Physician, Memorial Hospital. M.D. 1949, Tufts. [1963]
- Eugene E. Clifton, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1933, Lafayette; M.D. 1937, Yale. [1938; 1966]
- Eugene J. Cohen, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1933, M.S. 1934, Wisconsin; M.D. 1938, Cornell. [1940; 1961]
- James L. Curtis, *Associate Dean; Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1944, Albion; M.D. 1946, University of Michigan. [1969]
- Betty S. Danes, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1948, Mount Holyoke; M.A. 1949, University of Texas (Galveston); Ph.D. 1952, State University of Iowa; M.D. 1962, Columbia. [1963; 1967]



- Helen E. Daniells, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1937, Barnard; M.D. 1941, Cornell. [1945; 1965]
- E. William Davis, Jr., *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1947, Wesleyan; M.D. 1951, Cornell. [1952; 1962]
- Michael R. Deddish, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1933, M.D. 1937, Ohio State University. [1942; 1955]
- Peter Dineen, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1947, Cornell. [1949; 1960]
- M. Renate Dische, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1941, Immaculata College; Ph.D. 1953, M.D. 1957, Columbia. [1969]
- John W. Dougherty, *Clinical Associate Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. B.S. 1941, M.D. 1943, Minnesota. [1951; 1964]
- Howard S. Dunbar, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital. A.B. 1941, M.D. 1944, Cornell. [1949; 1962]
- Robert E. Eckhardt, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1939, Ph.D. 1940; M.D. 1943, Case Western Reserve. [1948; 1970]
- John H. Eckel, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1929, New York University; M.D. 1933, Cornell. [1934; 1946]
- George F. Egan, *Clinical Associate Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon in Charge (Dentistry), New York Hospital. D.M.D. 1931, Harvard. [1933; 1953]
- Kathryn H. Ehlers, *Associate Professor of Pediatrics*. A.B. 1953, Bryn Mawr; M.D. 1957, Cornell. [1959; 1970]
- William J. Eisenmenger, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1937, Fordham; M.D. 1941, Cornell. [1955; 1967]
- Borje E. Ejrup, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1948, Karolinska Institute, Stockholm. [1961; 1964]
- Nathan Epstein, *Clinical Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1922, M.I.T.; Ph.D. 1928, Columbia; M.D. 1934, Munich. [1946; 1961]
- Henry R. Erie, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Cornell. [1954; 1970]
- Hollon W. Farr, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1939, Yale; M.D. 1942, Harvard. [1952; 1970]
- Joseph H. Farrow, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. B.S. 1926, M.D. 1930, Virginia. [1950; 1960]
- Arthur W. Feinberg, *Clinical Associate Professor of Medicine*. B.A. 1943, M.D. 1945, Columbia. [1969]
- Bernard Fisher, *Clinical Associate Professor of Psychology in Psychiatry*. Associate Attending Psychologist, New York Hospital. B.S. 1948, Long Island University; M.A. 1950, Ph.D. 1953, N.Y.U. [1965; 1969]
- Frederic F. Flach, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1947, St. Peters; M.D. 1951, Cornell. [1954; 1962]
- John T. Flynn, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1937, Fordham; M.D. 1942, Cornell. [1948; 1970]
- William T. Foley, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1946; 1959]
- Joseph G. Fortner, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1944, M.D. 1945, Illinois. [1955; 1964]
- John E. Franklin, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Memorial Hospital. B.S. 1928, Notre Dame; M.D. 1932, Harvard. [1947; 1959]
- Edgar L. Frazell, *Clinical Associate Professor of Surgery*. Attending Surgeon, Memorial Hospital. A.B. 1929, M.D. 1931, Texas. [1950; 1958]
- Walter Freedman, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1950, DePauw; M.D. 1954, Cornell. [1960; 1969]
- Robert H. Freiburger, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital; Director, Department of Radiology, Hospital for Special Surgery. M.D. 1949, Tufts. [1955; 1963]
- Alvin H. Freiman, *Clinical Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1947, New York University; M.S. 1949, Illinois; M.D. 1953, New York University. [1958; 1967]
- Constance Friess, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1928, Barnard; M.D. 1932, Cornell. [1933; 1965]
- Hortense M. Gandy, *Associate Professor of Endocrinology in Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1943,

## 48 Faculty

- Westchester State College; M.S. 1948, Pennsylvania; M.D. 1951, Howard. [1959; 1968]
- Henry Gans, *Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. M.D. 1955, University of Nymegen, Holland; Ph.D. 1964, Minnesota. [1968]
- William Geller, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. A.B. 1943, M.D. 1946, Boston University. [1956; 1964]
- James L. German III, *Clinical Associate Professor of Anatomy; Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Investigator, New York Blood Center. B.S. 1945, Louisiana Polytechnic Institute; M.D. 1949, Southwestern. [1963; 1965]
- Michael D. Gershon, *Associate Professor of Anatomy*. B.A. 1958, M.D. 1963, Cornell. [1964; 1969]
- Helena Gilder, *Associate Professor of Biochemistry in Surgery; Assistant Professor of Biochemistry*. A.B. 1935, Vassar; M.D. 1940, Cornell. [1947; 1963]
- William P. Given, *Clinical Associate Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1941, Harvard; M.D. 1944, Cornell. [1946; 1960]
- Richard J. Glavin, *Clinical Associate Professor of Psychiatry*. B.A. 1951, Cornell; M.D. 1955, Rochester. [1970]
- Martin J. Glynn, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1931, Fordham; M.D. 1935, Long Island College of Medicine. [1939; 1968]
- Robert B. Golbey, *Clinical Associate Professor of Medicine*. B.S. 1943, Bethany, M.D. 1949, N.Y.U. [1961; 1970]
- Henry P. Goldberg, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital; Associate Attending Pediatrician, Hospital for Special Surgery. A.B. 1932, M.D. 1936, Johns Hopkins. [1946; 1960]
- Edward I. Goldsmith, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. A.B. 1947, M.D. 1950, Cornell. [1958; 1966]
- Jack Goldstein, *Associate Professor of Biochemistry*. Investigator, New York Blood Center. B.A. 1952, Brooklyn; M.N.S. 1957, Ph.D. 1959, Cornell. [1968]
- Mary E. W. Goss, *Associate Professor of Sociology in Medicine*. B.A. 1947, M.A. 1948, State University of Iowa; Ph.D. 1959, Columbia. [1959; 1968]
- Eugene L. Gottfried, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1954, Columbia. [1969]
- Dicran Goulian, Jr., *Clinical Associate Professor of Surgery (Plastic Surgery)*, Associate Attending Plastic Surgeon, New York Hospital. A.B. 1948, D.D.S. 1951, Columbia; M.D. 1955, Yale. [1958; 1968]
- Harry Grabstaid, *Associate Professor of Surgery (Urology)*. Associate Attending Urologist, Memorial Hospital. B.S. 1944, Southern Methodist; M.D. 1945, Texas. [1959; 1968]
- Bernice Grafstein, *Associate Professor of Physiology*. B.A. 1951, University of Toronto; Ph.D. 1954, McGill. [1969]
- Sidney M. Greenberg, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1925, M.D. 1928, Cornell. [1934; 1959]
- Stanley Gross, *Clinical Associate Professor of Pathology*. Director of Laboratories, North Shore Hospital. B.S. 1936, M.D. 1939, N.Y.U. [1969]
- Margaret T. Grossi, *Clinical Associate Professor of Pediatrics*. A.B. 1949, Notre Dame College of Staten Island; M.D. 1953, Georgetown. [1956; 1970]
- Herman Grossman, *Associate Professor of Pediatrics (Radiology); Associate Professor of Radiology*. Associate Attending Pediatrician, New York Hospital. B.A. 1947, North Carolina; M.A. 1949, Wesleyan; M.D. 1953, Columbia. [1964; 1968]
- Peter M. Guida, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1949, Long Island University; M.D. 1954, Albany. [1955; 1968]
- Armenio Costa Guimaraes, *Visiting Associate Professor of Medicine*. M.D. 1956, Faculty of Medicine, Bahia, Brazil. [1969]
- Keith O. Guthrie, Jr., *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1937, M.D. 1940, Cornell. [1947; 1969]
- Thomas C. Guthrie, *Clinical Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1943, Princeton; M.D. 1947, Columbia. [1954; 1969]
- Susan J. Hadley, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1941, Wisconsin; M.D. 1944, Cornell. [1946; 1968]
- Wilbur D. Hagamen, *Associate Professor of Anatomy*. B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962]
- Lawrence W. Hanlon, *Associate Dean*. A.B. 1935, M.D. 1938, Cornell. [1946; 1955]
- James Q. Haralambie, *Clinical Associate Professor of Pediatrics*. Attending Pediatrician, New York Hospital. A.B. 1931, Oberlin; M.D. 1935, Yale. [1939; 1968]
- Rudy H. Haschemeyer, *Associate Professor of Biochemistry*. B.A. 1952, Carthage College; Ph.D. 1957, Illinois. [1967; 1970]
- Lawrence J. Hatterer, *Clinical Associate Professor of Psychiatry*. Associate Attending

- Psychiatrist, New York Hospital. B.A. 1947, Princeton; M.D. 1949, Columbia. [1952; 1968]
- Graham G. Hawks, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1935, Colgate; M.D. 1940, New York University. [1953; 1962]
- Leonard L. Heimoff, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1934, University of Alabama; M.D. 1939, University of Maryland. [1946; 1968]
- Henry O. Heinemann, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1947, University of Amsterdam. [1968]
- Harold G. Hempling, *Associate Professor of Physiology*. A.B. 1948, New York University; M.A. 1950, Oberlin; Ph.D. 1953, Princeton. [1957; 1965]
- Lawrence E. Hinkle, Jr., *Associate Professor of Medicine; Associate Professor of Medicine in Psychiatry*. Associate Attending Physician, New York Hospital. A.B. 1938, North Carolina; M.D. 1942, Harvard. [1947; 1956]
- Lawrence B. Hobson, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Arkansas; Ph.D. 1941, Cincinnati; M.D. 1943, Chicago. [1946; 1967]
- James M. Holman, *Clinical Associate Professor of Otorhinolaryngology*. Attending Otorhinolaryngologist, New York Hospital. B.S. 1936, South Carolina; M.D. 1940, Medical College of South Carolina. [1946; 1969]
- George R. Holswade, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1940, Brown; M.D. 1943, Cornell. [1944; 1959]
- Melvin Horwith, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1947, Union; M.D. 1951, Albany Medical College. [1953; 1959]
- Raymond W. Houde, *Associate Professor of Medicine; Associate Professor of Pharmacology*. Associate Attending Physician, Memorial Hospital. A.B. 1940, M.D. 1943, New York University. [1950; 1967]
- Allan E. Inglis, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital. Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1950, Georgetown College; M.D. 1955, Rochester. [1956; 1967]
- Bernard Jacobs, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. M.B., B.S. 1948, College of Physicians and Surgeons, London. [1961; 1967]
- Myron S. Jacobs, *Clinical Associate Professor of Anatomy*. B.A. 1945, Pennsylvania; M.S. 1951, Ph.D. 1955, New York University. [1967; 1968]
- Abraham Jacobson, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1932, M.A. 1933, Columbia; M.D. 1940, New York University. [1955; 1967]
- Jerry H. Jacobson, *Clinical Associate Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.A. 1944, M.D. 1947, N.Y.U. [1955; 1970]
- Norman B. Javitt, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1947, Syracuse; Ph.D. 1951, North Carolina; M.D. 1954, Duke. [1968]
- Edmund N. Joyner III, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1927, Virginia Military Institute; M.D. 1932, Cornell. [1934; 1949]
- George L. Kauer, Jr., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1958]
- Ari Kiev, *Clinical Associate Professor of Psychiatry (Social Psychiatry)*. Associate Attending Psychiatrist, New York Hospital. A.B. 1954, Harvard; M.D. 1958, Cornell. [1967]
- Frederic T. Kirkham, Jr., *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1947, Cornell. [1948; 1962]
- Seymour G. Klebanoff, *Clinical Associate Professor of Psychology in Psychiatry*. A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950; 1969]
- Gerald H. Klingon, *Clinical Associate Professor of Neurology*. Associate Attending Physician, Memorial Hospital. A.B. 1942, Columbia; M.D. 1945, Cornell. [1953; 1962]
- Richard N. Kohl, *Associate Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. A.B. 1938, M.D. 1942, University of Cincinnati. [1945; 1959]
- Leonard Korngold, *Associate Professor of Microbiology in Surgery (Orthopedics)*. B.A. 1947, Brooklyn; M.Sc. 1948, Ph.D. 1950, Ohio State University. [1961; 1962]
- Herbert Koteen, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1967]
- Irwin H. Krakoff, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.A. 1943, M.D. Ohio State. [1956; 1968]
- Henn Kutt, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. M.D. 1950, Frankfurt. [1955; 1968]

## 50 Faculty

- John S. LaDue, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital. B.S. 1932, M.S. 1940, Ph.D. 1941, Minnesota; M.D. 1936, Harvard. [1948; 1957]
- Eugene M. Lance, *Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1954, M.D. 1958, Cornell [1959; 1969]
- Robert Landesman, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Columbia; M.D. 1939, Cornell. [1949; 1958]
- Ludwig G. Laufer, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. M.D. 1948, Cornell. [1961; 1969]
- Russell W. Lavengood, Jr., *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon, (Urology), New York Hospital. B.S. 1947, St. Joseph's College; M.D. 1951, Louisville. [1952; 1970]
- John E. Lee, *Clinical Associate Professor of Neurology; Clinical Assistant Professor of Anatomy*. Associate Attending Neurologist, New York Hospital. A.B. 1954, Princeton; M.D. 1958, Duke. [1963; 1970]
- Richard E. Lee, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1967]
- Abraham S. Lenzner, *Clinical Associate Professor of Psychiatry*. Attending Psychiatrist, North Shore Hospital. B.A. 1937, M.A. 1938, University of Michigan; M.D. 1941, Buffalo. [1969]
- Aaron R. Levin, *Associate Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.Sc. 1948, M.B. B.Ch. 1953, Witwatersrand; D.C.H. 1960, M.R.C.P. 1961, Royal College of Physicians and Surgeons. [1966; 1969]
- Alfred B. Lewis Jr., *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1949, Harvard; M.D. 1953, Pennsylvania. [1956; 1969]
- John L. Lewis, Jr., *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital; Attending Surgeon and Chief, Gynecology Service, Memorial Hospital. B.A. 1952, M.D. 1957, Harvard. [1968]
- Edward Y. Liang, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S. 1952, George Washington; M.D. 1956, Harvard. [1963; 1967]
- Frederick L. Liebolt, *Clinical Associate Professor of Surgery (Orthopedics)*. Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. A.B. 1925, LL.D. 1948, Arkansas; M.D. 1930, Washington University; Sc.D., 1937, Columbia. [1939; 1946]
- Wan Ngo Lim, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1945, National Shanghai Medical College. [1953; 1970]
- Harvey A. Lincoff, *Clinical Associate Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960; 1970]
- Mack Lipkin, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1963; 1964]
- Martin Lipkin, *Associate Professor of Medicine*. A.B. 1946, M.D. 1950, New York University. [1955; 1963]
- Edward J. Lorenze, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. M.D. 1946, New York University. [1953; 1967]
- Daniel S. Lukas, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, M.D. 1947, Columbia. [1948; 1957]
- Donald W. R. Mackenzie, *Associate Professor of Microbiology*. B.Sc. 1953, Ph.D. 1958, Edinburgh University, Scotland. [1967; 1969]
- Henry Mannix, Jr., *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1965]
- Ralph C. Marcove, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. A.B. 1950, M.D. 1964, Boston University. [1963; 1970]
- Aaron Jacob Marcus, *Associate Professor of Medicine*. B.A. 1948, Virginia; M.D. 1953, New York Medical College. [1958; 1967]
- Stewart L. Marcus, *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1961; 1967]
- Florence Marshall, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1968]
- Klaus Mayer, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groningen. [1958; 1968]
- Abraham Mazur, *Clinical Associate Professor of Biochemistry in Medicine*. B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1969]

- Eugene G. McCarthy, Jr., *Clinical Associate Professor of Public Health*. B.A. 1956, Boston College; M.D. 1960, Yale; M.S. 1962, Johns Hopkins. [1970]
- Ellen McDavitt, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1930, Mississippi State College for Women; M.D. 1949, Utah. [1951; 1963]
- Robert W. McDavitt, *Associate Professor of Pathology; Associate Professor of Pathology in Surgery*. Associate Attending Pathologist, New York Hospital; Assistant Attending Pathologist, Memorial Hospital. A.B. 1952, Harvard; M.D. 1956, Yale. [1967]
- John H. McGovern, *Clinical Associate Professor of Surgery (Urology)*. Associate Attending Surgeon (Urology), New York Hospital. B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1964]
- Robert G. McGovern, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1968]
- Paul R. McHugh, *Associate Professor of Psychiatry; Associate Professor of Neurology*. Associate Attending Psychiatrist; Associate Attending Neurologist, New York Hospital. A.B. 1952, M.D. 1956, Harvard. [1964; 1968]
- Alan A. McLean, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1948, Long Island College of Medicine. [1954; 1968]
- Thomas H. Meikle, Jr., *Associate Dean; Associate Professor of Anatomy; Associate Professor of Neuroanatomy in Psychiatry*. A.B. 1951, M.D. 1954, Cornell. [1961; 1966]
- Irwin R. Merkat, *Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1955, M.D. 1958, Cornell. [1959; 1970]
- Denis R. Miller, *Associate Professor of Pediatrics*. A.B. 1955, M.D. 1959, Cornell. [1970]
- Richard Minick, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1957, Wyoming; M.D. 1960, Cornell. [1963; 1970]
- Laurence Miscall, *Clinical Associate Professor of Surgery*. A.B. 1926, M.D. 1930, Cornell. [1942; 1967]
- Virginia C. Mitty, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.S. 1941, Mount St. Vincent; M.D. 1946, New York University. [1956; 1968]
- Edward Carl Muecke, *Clinical Associate Professor of Surgery (Urology)*. A.B. 1953, Reed College; M.D. 1957, Cornell. [1967; 1970]
- George C. Mueller, *Clinical Associate Professor of Otorhinolaryngology*. Attending Otorhinolaryngologist, New York Hospital. B.S. 1931, M.D. 1935, Georgetown. [1953; 1969]
- Zuheir Mujahed, *Clinical Associate Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1942, M.D. 1947, American University Beirut School of Medicine. [1955; 1968]
- Ralph L. Nachman, *Associate Professor of Medicine*. Associate Attending Physician; Director, Division of Hematology, New York Hospital. A.B. 1953, M.D. 1956, Vanderbilt. [1957; 1968]
- Bertrand L. New, *Clinical Associate Professor of Psychiatry; Clinical Associate Professor of Psychiatry in Pediatrics*. Associate Attending Psychiatrist. Assistant Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1966; 1967]
- Maria I. New, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. B.A. 1950, Cornell; M.D. 1954, Pennsylvania. [1957; 1968]
- James A. Nicholas, *Clinical Associate Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958; 1967]
- William F. Nickel, Jr., *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. A.B. 1930, M.D. 1934, Johns Hopkins. [1935; 1950]
- Herbert F. Oettgen, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. M.D. 1951, Cologne University Medical School, Germany. [1958; 1970]
- Arthur J. Okinaka, *Clinical Associate Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1950, M.D. 1954, University of Chicago. [1956; 1968]
- William M. O'Leary, *Associate Professor of Microbiology*. B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959; 1965]
- Herbert Parsons, *Clinical Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital; A.B. 1931, Yale; M.D. 1935, Harvard. [1938; 1954]
- Russel H. Patterson, Jr., *Associate Professor of Surgery (Neurosurgery)*. Associate Attending Surgeon (Neurosurgery), New York Hospital; Consulting Associate Neurosurgeon, Memorial Hospital. B.A. 1948, Stanford; M.D. 1952, Cornell. [1955; (Brooklyn). [1960; 1968]
- Mary Ann Payne, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1935, Hood; M.A. 1941, Ph.D. 1943, Wisconsin; M.D. 1945, Cornell. [1946; 1959]

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- Walter L. Peretz, *Clinical Associate Professor of Ophthalmology*. Associate Attending Ophthalmologist, New York Hospital. B.A. 1947, Princeton; M.D. 1952, Cornell. [1955; 1970]
- Melville A. Platt, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1948, M.D. 1952, University of Western Ontario. [1956; 1968]
- Nathan Paker, *Clinical Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1942, Brooklyn; M.D. 1950, Columbia. [1953; 1968]
- John L. Pool, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1930, Princeton; M.D. 1934, Columbia. [1948; 1968]
- Alfred M. Prince, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1949, Yale; M.A. 1951, Columbia; M.D. 1955, Western Reserve. [1966]
- R. A. Rees Pritchett, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1944, Houghton College; M.D. 1948, Cornell. [1952; 1962]
- John T. Queenan, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1954; Notre Dame; M.D. 1958, Cornell. [1962; 1970]
- Leon C. Rackow, *Clinical Associate Professor of Psychiatry*. B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962]
- S. Frank Redo, *Clinical Associate Professor of Surgery; Clinical Associate Professor of Pediatrics (Surgery)*. Associate Attending Surgeon, New York Hospital. B.S. 1942, Queens College; M.D. 1950, Cornell. [1951; 1967]
- Donald J. Reis, *Associate Professor of Neurology*. Associate Attending Neurologist, New York Hospital. A.B. 1953; M.D. 1956, Cornell. [1963; 1967]
- Charlotte Ressler, *Associate Professor of Biochemistry*. B.A. 1944, N.Y.U.; M.A. 1946, Ph.D. 1949, Columbia. [1949; 1968]
- John C. Ribble, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1955, Texas. [1959; 1966]
- Jack Richard, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1956; 1969]
- Edgar A. Riley, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1944, Columbia. [1952; 1969]
- Guy F. Robbins, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1970]
- Williams C. Robbins, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1963]
- Thomas N. Roberts, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1966]
- Bernard Rogoff, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1932, New York University; M.D. 1936, University of Geneva. [1955; 1966]
- David M. Roseman, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1947, M.D. 1951, Johns Hopkins. [1952; 1966]
- Leonard Ross, *Associate Professor of Anatomy*. A.B. 1946, M.S. 1949, Ph.D. 1954, New York University. [1957; 1961]
- Richard A. Ruskin, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1940, M.D. 1943, Duke. [1952; 1967]
- Samuel F. Ryan, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1952, M.A. 1954, M.B., B.Ch., B.A.O., Dublin University. [1957; 1968]
- Lee Salk, *Clinical Associate Professor of Psychology in Pediatrics*. Attending Psychologist in Pediatrics, New York Hospital. B.A. 1949, M.A. 1950, Ph.D. 1954, University of Michigan. [1966; 1968]
- Charles A. Santos-Buch, *Associate Dean; Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. A.B. 1953, Harvard; M.D. 1957, Cornell. [1958; 1968]
- Brij Saxena, *Associate Professor of Biochemistry in Medicine*. Ph.D. 1954, University of Lucknow, India, Dr.rer.nat. 1957, University of Muenster, West Germany; Ph.D. 1961, Wisconsin. [1966]
- George Schaefer, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1951; 1958]
- Lawrence Scherr, *Acting Associate Dean; Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Acting Director of Academic Affairs and Director of the Division of Medicine, North Shore Hospital. A.B. 1950, M.D. 1957, Cornell. [1958; 1966]
- David Schottenfeld, *Associate Professor of Public Health*. A.B. 1952, Hamilton; M.D.

- 1956, Cornell; M.S. 1963, Harvard. [1957; 1970]
- Ernest Schwartz, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1945, A.M. 1950, M.D. 1951, Columbia. [1958; 1970]
- Olga Schweizer, *Associate Professor of Anesthesiology*. Attending Anesthesiologist, Memorial Hospital. B.A. 1932, Barnard; M.D. 1937, Columbia. [1954; 1968]
- Arthur W. Seligmann, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1933, Columbia; M.D. 1937, Cornell. [1961; 1967]
- Laurence B. Senterfit, *Associate Professor of Microbiology*. B.S. 1949, M.S. 1950, University of Florida; Sc.D. 1955, Johns Hopkins. [1970]
- John F. Seybolt, *Clinical Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1963]
- Arthur K. Shapiro, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.S. 1951, C.C.N.Y.; M.D. 1955, Chicago. [1966]
- Paul Sherlock, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1967]
- Maurice Shils, *Associate Professor of Medicine*. B.A. 1937; Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962; 1967]
- Selma Silagi, *Associate Professor of Genetics in Obstetrics and Gynecology*. A.B. 1936, Hunter; Ph.D. 1961, Columbia. [1965; 1970]
- Richard T. Silver, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1950, M.D. 1953, Cornell. [1956; 1967]
- Julio L. Sirlin, *Associate Professor of Anatomy*. D.Sc. 1953, University of Buenos Aires, Argentina. [1967]
- Gregory W. Siskind, *Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1955, Cornell; M.D. 1959, N.Y.U. [1969]
- Paul A. Skudder, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, New York Hospital. B.A. 1949, Middlebury; M.D. 1953, Cornell. [1958; 1967]
- Gerard P. Smith, *Associate Professor of Physiology in Psychiatry*. Assistant Attending Physiologist, New York Hospital (Westchester Division). B.S. 1956, St. Joseph's; M.D. 1960, Pennsylvania. [1961; 1969]
- Reuven K. Snyderman, *Clinical Associate Professor of Surgery (Plastic Surgery)*. Associate Attending Plastic Surgeon, Memorial Hospital. A.B. 1943, M.D. 1946, Pennsylvania. [1954; 1968]
- Leslie H. Sobin, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. B.S. 1955, Union; M.D. 1959, State University of New York (Brooklyn). [1960; 1968]
- Cyril Solomon, *Clinical Associate Professor of Pathology*. B.S. 1932, M.D. 1936, Maryland. [1965; 1967]
- Martin Sonenberg, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, Pennsylvania; M.D. 1944, Ph.D. 1952, New York University. [1950; 1957]
- Lawrence S. Sonkin, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1951; 1968]
- Chester M. Southam, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1941, M.S. 1943, Idaho; M.D. 1947, Columbia. [1951; 1958]
- Maus J. Stearns, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1935, Union; M.D. 1939, Albany. [1950; 1970]
- Harry L. Stein, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. B.A. 1953; N.Y.U.; M.D. 1957 S.U.N.Y. [1962; 1970]
- Herman Steinberg, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1967]
- Kurt H. Stenzel, *Associate Professor of Biochemistry (Surgery)*. Associate Professor of Surgery (Biochemistry). Assistant Attending Surgeon, New York Hospital. B.A. 1954, N.Y.U.; M.D. 1958, Cornell. [1959; 1969]
- Maxwell Stillerman, *Clinical Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1932, Long Island College of Medicine. [1948; 1962]
- Peter E. Stokes, *Associate Professor of Medicine in Psychiatry*. Associate Professor of Medicine. Associate Attending Physician, New York Hospital. B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1967]
- Richard W. Stone, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1943, M.D. 1945, Wisconsin. [1957; 1966]
- Elliot W. Strong, *Clinical Associate Professor of Surgery*. Department of Surgery, Memorial Hospital. B.S. 1952, M.D. 1956, Tufts. [1959; 1970]
- William D. Stubenbord, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1932; 1966]
- William J. Sweeney, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1942,

## 54 Faculty

- Maryville College; M.D. 1949, Cornell. [1950; 1960]
- Charlotte T. C. Tan, *Associate Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1970]
- Howard J. Tatum, *Clinical Associate Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1936, Ph.D. 1941, M.D. 1943, Wisconsin. [1968]
- Melvin Tefft, *Associate Professor of Radiology*. A.B. 1954, Harvard; M.D. 1958, Boston University. [1970]
- Alphonse E. Timpanelli, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Cornell. [1938; 1953]
- Jerome A. Urban, *Clinical Associate Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.A. 1934, M.D. 1938, Columbia. [1952; 1968]
- Parker Vanamee, *Associate Professor of Medicine*. Associate Attending Physician, Memorial Hospital. B.S. 1942, Yale; M.D. 1945, Cornell. [1955; 1961]
- George E. Wantz, *Clinical Associate Professor of Surgery*. Attending Surgeon, New York Hospital. M.D. 1946, University of Michigan. [1950; 1961]
- Nathaniel Warner, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1930, M.B.A. 1932, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1961]
- Elliott L. Weitzman, *Clinical Associate Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. B.A. 1943, Johns Hopkins; M.D. 1946, Maryland. [1964]
- Daniel Wellner, *Associate Professor of Biochemistry*. A.B. 1956, Harvard; Ph.D. 1961, Tufts. [1967; 1969]
- Aaron O. Wells, *Clinical Associate Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1943, Virginia Union; M.D. 1946, Howard. [1951; 1969]
- Joseph P. Whalen, *Associate Professor of Radiology*. Associate Attending Radiologist, New York Hospital. A.B. 1955, Fordham; M.D. 1959, S.U.N.Y. (Syracuse). [1969]
- Robert E. Wieche, *Clinical Associate Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1948, Miami University (Ohio), M.D. 1952, Cornell. [1959; 1969]
- Byard Williams, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, New York Hospital, Westchester Division. A.B. 1926, Williams; M.D. 1930, Columbia. [1933; 1953]
- John R. Williams, *Clinical Associate Professor of Otorhinolaryngology*. Attending Otorhinolaryngologist, New York Hospital. B.A. 1945, Columbia; M.D. 1949, N.Y.U. [1954; 1969]
- A. Lee Winston, *Clinical Associate Professor of Medicine*. Associate Attending Physician, New York Hospital. B.A. 1949, Syracuse; M.D. 1952, S.U.N.Y. (Syracuse). [1957; 1970]
- Kenneth R. Woods, *Associate Professor of Biochemistry*. B.A. 1948, Arizona State; Ph.D. 1955, Minnesota. [1956; 1968]

## Assistant Professors

- Henriette E. Abel, *Clinical Assistant Professor of Medicine*. A.B. 1955, Vassar; M.D. 1959, Cornell. [1960; 1969]
- Robert R. Abel, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Princeton; M.D. 1956, Cornell. [1957; 1967]
- Edward T. Adelson, *Clinical Assistant Professor of Psychiatry*. A.B. 1936, M.D. 1940, Cornell. [1961; 1970]
- Michael Alderman, *Assistant Professor of Community Medicine in Public Health*. A.B. 1958, Harvard; M.D. 1962, Yale. [1967; 1970]
- Arthur A. Anderson, Jr., *Clinical Assistant Professor of Psychiatry*. B.S. 1949, M.D. 1954, University of Washington (Seattle). [1955; 1967]
- Gerald A. Anderson, *Clinical Assistant Professor of Psychiatry*. B.S. 1959, Wyoming; M.D. 1963, Cornell. [1964; 1970]
- Lowell L. Anderson, *Assistant Professor of Radiology (Physics)*. Associate Attending Physician, Memorial Hospital. B.S. 1953, Ph.D. 1958, Rochester. [1970]
- William A. Anderson, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.S. 1942, Tuskegee Institute; M.D. 1953, University of Michigan. [1957; 1968]
- Vittorino M. Andreoli, *Visiting Assistant Professor of Anatomy*. B.S. 1960, Liceo. Scient. di Verona (Italy); M.D. 1966, University of Padua. [1969]
- Joseph Arcuri, *Clinical Assistant Professor of Psychiatry*. B.A. 1949, N.Y.U.; M.D. 1956, University of Pavia, Italy. [1963; 1970]
- Diana C. Argyros, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1959, M.D. 1962, N.Y.U. [1968; 1970]
- George C. Armistead, Jr., *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. B.S. 1938, M.D. 1941, University of Virginia. [1948; 1962]



- Donald Armstrong, *Assistant Professor of Medicine*. B.A. 1953, Lehigh; M.D. 1957, Columbia. [1959; 1965]
- William David Arnold, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Colgate; M.D. 1948, Cornell. [1958; 1965]
- Alfred L. Aronson, *Assistant Professor of Medicine*. Assistant Attending Physician, North Shore Hospital. A.B. 1955, Cornell; M.D. 1958, N.Y.U. [1969]
- Jason Aronson, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1949, B.S. 1950, M.D. 1953, Minnesota. [1965]
- Barbara S. Ashe, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1947, Wellesley; M.D. 1951, New York University. [1951; 1959]
- Harold Baltaxe, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1960, University of Lausanne; P.C.B. 1952, University of Paris. [1969]
- Harvey H. Barten, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, M.D. 1959, Harvard. [1961; 1969]
- Richard R. Bass, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, Cornell; M.D. 1949, New York Medical College. [1956; 1962]
- James E. Baxter, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1951, Georgetown. [1955; 1970]
- Curtis H. Baylor, *Clinical Assistant Professor of Medicine*. B.S. 1929, Emory and Henry College; M.D. 1935, Johns Hopkins. [1954; 1955]
- Thomas Beckett, *Clinical Assistant Professor of Psychology in Psychiatry*. B.A. 1949, Yale; M.A. 1951, Columbia; Ph.D. 1958, Adelphi. [1960; 1968]
- Stanley J. Behrman, *Clinical Assistant Professor of Surgery (Dental Surgery)*. Attending Oral Surgeon (Dentistry), New York Hospital. A.B. 1942, New York University; D.D.S. 1954, Pittsburgh. [1948; 1953]
- Arthur R. Beil, Jr., *Assistant Professor of Surgery*. Assistant Attending Surgeon, North Shore Hospital. A.B. 1955, Brown; M.D. 1959, Cornell. [1960; 1969]
- Francis A. Beneventi, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. M.D. 1930, Long Island College of Medicine. [1949; 1958]
- Bry Benjamin, *Clinical Assistant Professor of Medicine*. B.S. 1945, Yale; M.D. 1947, Harvard. [1954; 1964]
- Hermina Z. Benjamin, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1951, University of Bucharest. [1969]
- Carl A. Berntsen, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Attending Physician, Hospital for Special Surgery. A.B. 1942, California; M.D. 1945, Johns Hopkins. [1948; 1962]
- Richard E. Bettigole, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. B.A. 1953, Yale; M.D. 1957, Columbia. [1964; 1966]
- Harry Bienenstock, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Yeshiva; M.D. 1957, Chicago. [1960; 1968]
- Otto E. Billo, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1930, Williams; M.D. 1935, Harvard. [1947; 1954]
- Robert T. Binford, Jr., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Vanderbilt; D.M.D. 1955, M.S. 1959, Alabama; M.D. 1963, Cornell. [1965; 1967]
- Stanley J. Birnbaum, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1942, Queens; M.D. 1951, Cornell. [1961]
- Lawrence M. Blau, *Assistant Professor of Radiology (Physics)*. Associate Scientist, Hospital for Special Surgery. B.A. 1959, Princeton; M.A. 1963, Ph.D. 1965, Rochester. [1970]
- Lemuel Bowden, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1936, M.D. 1939, Harvard. [1961; 1965]
- Jo Anne Brasel, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1956, M.D. 1959, University of Colorado. [1960; 1969]
- Richard D. Brasfield, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1942, M.D. 1944, Vanderbilt. [1953; 1966]
- Robert G. Brayton, *Assistant Professor of Medicine*. B.A. 1954, Williams; M.D. 1958, Cornell. [1961; 1968]
- Paul W. Braunstein, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1945, Holy Cross; M.D. 1947, Harvard. [1948; 1957]
- William R. Breakey, *Visiting Assistant Professor of Psychiatry*. B.Sc. 1961, M.B., B.Ch., B.A.O. 1964, Queens University, Belfast; M.R.C.P. 1968, Royal College of Physicians of Edinburgh. [1969]
- Robert W. Brennan, *Assistant Professor of Neurology*. Assistant Attending Neurologist,

## 56 Faculty

- New York Hospital. A.B. 1958, M.D. 1962, Cornell. [1963; 1970]
- Esther M. Breslow, *Assistant Professor of Biochemistry*. B.S. 1953, Cornell; M.S. 1955; Ph.D. 1959, New York University. [1961; 1964]
- Mitchell Brice II, *Clinical Assistant Professor of Surgery (Urology)*. B.S. 1941, M.D. 1945, University of Georgia. [1951; 1970]
- Alfred Brockunier, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.S. 1945, Franklin and Marshall; M.D. 1947, Jefferson. [1957; 1962]
- Keeve Brodman, *Clinical Assistant Professor of Medicine*. B.S. 1927, C.C.N.Y.; M.D. 1931, Cornell. [1938; 1950]
- John L. Brown, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, M.D. 1955, Cornell. [1958; 1965]
- Albert N. Browne-Mayers, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1933, Wisconsin; M.D. 1937, Columbia. [1949; 1967]
- Mary C. Buchanan, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. M.B., Ch.B., B.Sc., 1946, University of Edinburgh; D.C.H. 1952, University of London. [1959; 1968]
- Peter Bullough, *Assistant Professor of Pathology*. 1950, Blackpool Grammar School; M.D. 1956, Liverpool University Medical School. [1969]
- Donald J. Cameron, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1951, Amherst; M.D. 1955, Cornell. [1961; 1965]
- Joan Mary Cameron, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.B., Ch.B. 1955, Edinburgh University; D.M.R.D. 1964, University College Hospital (London); F.F.R. 1967, St. Thomas' Hospital (London). [1969]
- Walter Camp, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1953, Arkansas; M.D. 1957, Emory. [1965; 1968]
- Virginia C. Canale, *Assistant Professor of Pediatrics*. B.S. 1957, Marymount; M.D. 1961, Woman's Medical College of Pennsylvania. [1964; 1969]
- Arthur S. Carlson, *Clinical Assistant Professor of Pathology*. A.B. 1941, Brooklyn; M.D. 1952, Cornell. [1954; 1969]
- Robert G. Carlson, *Assistant Professor of Surgery*. B.A. 1951, M.D. 1954, Minnesota. [1968; 1970]
- Walter T. Carpenter, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1934, Williams; M.D. 1938, Cornell. [1943; 1968]
- Richard R. Carruthers, *Clinical Assistant Professor of Neurology*. B.A. 1958, Westminster; M.D. 1962, Case Western Reserve. [1966; 1970]
- Susan T. Carver, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Director of The New York Hospital. A.B. 1952, Swarthmore; M.D. 1956, Columbia. [1960; 1963]
- Benedict S. Caterinicchio, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Johns Hopkins; M.D. 1958, New York. [1959; 1968]
- Daniel Catlin, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. A.B. 1932, Yale; M.D. 1936, Harvard. [1955; 1963]
- Leon Charash, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1947, M.D. 1950, Cornell. [1957; 1968]
- Edwin H. Church, *Clinical Assistant Professor of Psychiatry*. M.D. 1949, Rochester. [1966; 1970]
- Kuo York Chynn, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.S. 1954, St. Louis University; M.D. 1949, National Tung Chi University. [1958]
- Vincent A. Cipollaro, *Clinical Assistant Professor of Medicine*. B.A. 1953, Buffalo; M.D. 1958, University of Padua. [1965; 1970]
- Hugh E. Claremont, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.B.B.S. 1944, M.D. 1951, University of London; M.S. 1958, Colorado. [1958; 1966]
- Donald G. C. Clark, *Clinical Assistant Professor of Surgery*. Department of Surgery, Memorial Hospital. B.Sc. 1940, M.B., Ch.B. 1944, St. Andrews University, Scotland; M.D. 1945, Yale. [1951; 1967]
- Melva A. Clark, *Clinical Assistant Professor of Medicine*. A.B. 1935, Wellesley; M.D. 1939, Cornell. [1952; 1967]
- M. David Clayton, *Assistant Professor of Psychology in Psychiatry*. B.S. 1956, Utah; A.M. 1960, George Washington University; Ph.D. 1963, Washington University. [1963; 1966]
- Margaret H. S. Clements, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1951, M.B., B.Ch., B.A.O. 1956, Dublin University, Ireland. [1966; 1967]
- John T. Cole, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1936, Duke; M.D. 1940, Maryland. [1952; 1954]
- Morton Coleman, *Assistant Professor of Medicine*. B.A. 1959, Johns Hopkins; M.D. 1963, Medical College of Virginia. [1967; 1970]

- C. Stephen Connolly, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1955, Fordham; M.D. 1959, Cornell. [1960; 1968]
- Francis P. Coombs, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1937, Colgate; M.D. 1940, Cornell. [1963; 1968]
- George N. Cornell, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. M.D. 1950, Cornell. [1951; 1958]
- Armand Cortese, *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1954, Columbia; M.D. 1958, Cornell. [1959; 1969]
- Jerome A. Covey, *Clinical Assistant Professor of Medicine*. B.A. 1936, Yale; M.D. 1941, Western Ontario. [1970]
- Denton S. Cox, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1948, Yale; M.D. 1952, Columbia. [1953; 1965]
- Jean A. Cramer, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1950, Cornell. [1951; 1967]
- F. Mitchell Cummins, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1942, Harvard; M.D. 1945, Columbia. [1951; 1960]
- E. Gerald Dabbs, *Clinical Assistant Professor of Psychiatry*. B.A. 1962, Texas Technological; M.D. 1962, University of Texas Southwestern. [1969; 1970]
- John D. Dalach, *Clinical Assistant Professor of Psychology in Psychiatry*. B.A. 1957, Yale; Ph.D. 1964, Columbia. [1970]
- Marion Davis, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1942, Wyoming; M.D. 1946, University of Rochester. [1951; 1965]
- Michael D. F. Deck, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.B.B.S. 1961, University of Sydney, M.C.R.A. 1965, College of Radiologists of Australia; F.F.R. 1967, Royal College of Surgeons, London. [1968]
- Thomas J. Degnan, *Assistant Professor of Medicine*. Chief, Section of Hematology, North Shore Hospital. B.S. 1952, Rutgers; M.D. 1956, New York. [1969]
- Alan DeMayo, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1949, University of Michigan; M.D. 1953, Albany. [1959; 1968]
- Eleanor E. Deschner, *Assistant Professor of Radiology (Radiobiology)*; *Assistant Professor of Radiobiology in Medicine*. B.A. 1949, Notre Dame of Staten Island; M.S. 1951, Ph.D. 1954, Fordham. [1960; 1968]
- Monroe T. Diamond, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1938, Yale; M.D. 1942, Virginia. [1944; 1965]
- Robert W. Dickerman, *Assistant Professor of Microbiology*. B.S. 1951, Cornell; M.A. 1953, Arizona; Ph.D. 1961, Minnesota. [1962; 1965]
- Carolyn H. Diehl, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1946, M.D. 1950, Cornell. [1952; 1966]
- George W. Dietz, Jr., *Assistant Professor of Biochemistry*. B.A. 1959, Williams; Ph.D. 1965, Yale. [1967; 1970]
- John H. Doherty, *Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.A. 1945, Holy Cross; M.D. 1949, New York Medical College. [1958; 1963]
- Duane L. Dowell, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1968, DePauw; M.D. 1962, Illinois. [1968]
- Lawrence A. Downs, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1959, M.D. 1964, Yale. [1966; 1970]
- J. Edwin Drew, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958]
- Lewis Drusin, *Assistant Professor of Epidemiology in Public Health*. B.S. 1960, Union; M.D. 1964, Cornell. [1968; 1970]
- Robert E. Dye, *Clinical Assistant Professor of Medicine*. A.B. 1950, Duke; M.D. 1958, University of Virginia. [1961; 1969]
- Richard G. Eaton, *Assistant Professor of Surgery (Orthopedics)*. B.S. 1951, Franklin & Marshall; M.D. 1955, Pennsylvania. [1965; 1970]
- Adrian L. Edwards, *Clinical Assistant Professor of Medicine*. B.S. 1956, Wagner; M.D. 1960, Howard. [1967; 1970]
- Sidney N. Eichenholtz, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. B.S. 1929, Maryland; M.A. 1930, Columbia; M.D. 1934, St. Louis University. [1958; 1963]
- Herbert L. Erlanger, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. A.B. 1945, M.D. 1949, Columbia. [1957; 1964]
- Ralph A. Eskesen, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Drew; M.D. 1943, Johns Hopkins. [1952; 1968]
- Edwin Ettinger, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician,

## 58 Faculty

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- Richard G. Evans, *Assistant Professor of Radiology (Physics)*. B.Sc. 1956, University of Wales; M.S. 1966, Ph.D. 1968, U.C.L.A. [1968]
- Philip R. Exelby, *Assistant Professor of Surgery*. M.A. 1952; M.D. 1954, The Queens College, Oxford. [1967; 1970]
- M. Elaine Eyster, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1956, M.D. 1960, Duke. [1961; 1967]
- Thomas J. Fahey, Jr., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Attending Physician, Memorial Hospital. B.A. 1955, Fordham; M.D. 1959, Cornell. [1965; 1967]
- George A. Falk, *Assistant Professor of Medicine*. A.B. 1960, M.D. 1964, Harvard. [1968; 1970]
- Colin Fell, *Assistant Professor of Physiology*. A.B. 1951, Antioch; M.S. 1953, Ph.D. 1957, Wayne State University. [1962]
- Caleb E. Finch, *Assistant Professor of Anatomy*. B.S. 1961, Yale; Ph.D. 1969, Rockefeller. [1970]
- John A. Finkbeiner, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.S. 1939, Pittsburgh; M.D. 1942, Western Reserve. [1955; 1956]
- Niall D. C. Finlayson, *Assistant Professor of Medicine*. B.Sc. 1962, M.B., Ch.B. 1964, Edinburgh; M.R.C.P.E. 1967, Royal College of Physicians (Edinburgh). [1969; 1970]
- Maria F. Fleetwood, *Clinical Assistant Professor of Psychiatry*. M.D. 1941, University of Chile. [1948; 1970]
- Claude E. Forkner, Jr., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1949, Harvard; M.D. 1954, Cornell. [1960; 1969]
- Gerard Fountain, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1939, M.D. 1943, Yale. [1958; 1966]
- Nicholas Freyberg, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1927, Pennsylvania; Ph.D. 1963, New York University. [1963; 1967]
- Lionel O. Friedman, *Clinical Assistant Professor of Psychiatry*. B.A. 1952, New York University; M.D. 1955, State University of New York, New York City. [1967]
- G. Gail Gardner, *Assistant Professor of Pediatrics (Psychology)*. B.A. 1960, Smith; M.S., 1965, Ph.D. 1966, Columbia. [1967; 1970]
- Horace T. Gardner, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1935, University of New Mexico; M.D. 1941, Yale. [1960]
- Martin Gardy, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, C.C.N.Y.; M.D. 1960, Cornell. [1963; 1966]
- Ludwig Geib, *Assistant Professor of Pathology (Comparative Pathology)*. D.V.M. 1957, Cornell; M.V.Sc. 1959, Toronto. [1969]
- Harold Gervent, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. D.D.S. 1932, Pennsylvania; M.D. 1936, Yale. [1937; 1950]
- Bernard Ghelman, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1958, Andrews College, Rio de Janeiro; M.D. 1963, University of Brazil. [1969]
- Fakhry Girgis, *Assistant Professor of Anatomy*. M.B., B.Ch. 1949, Cairo University; Ph.D. 1957, Queen's University (Belfast). [1969]
- David L. Globus, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1954, Washington University. [1958; 1966]
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- Doris K. Goldberg, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Vassar; M.D. 1957, N.Y.U. [1959; 1968]
- Howard Goldin, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, Amherst; M.D. 1961, Cornell. [1962; 1969]
- Stephen Goodyear, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1938, Harvard; M.D. 1943, Columbia. [1948; 1965]
- George W. Gorham, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Yale; M.D. 1954, Johns Hopkins. [1960; 1964]
- Anita H. Goulet, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, Hospital for Special Surgery. B.A. 1948, Hunter; M.D. 1952, N.Y.U. [1953; 1968]
- William R. Grafe, Jr., *Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. A.B. 1951, Harvard; M.D. 1955, New York University. [1956; 1966]
- Jose L. Granda, *Assistant Professor of Medicine (Biochemistry)*. Assistant Attending Physician, New York Hospital. M.D. 1956, University of Madrid; Ph.D. 1963, University of Maryland. [1966]
- George F. Gray, Jr., *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1956, Texas; M.D., M.S. 1961, Baylor. [1968]

- Nelson M. Gray, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.Sc., M.D.C.M. 1932, M.Sc., 1934, McGill University. [1968]
- Ernest Greenberg, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1949, M.D. 1953, American University, Beirut. [1963]
- August H. Groeschel, *Assistant Professor of Public Health*. Vice President, New York Hospital-Cornell Medical Center. A.B. 1927, Holy Cross, M.D. 1931, M.S. 1947, Columbia. [1954; 1962]
- Stephen J. Gulotta, *Assistant Professor of Medicine*. B.S. 1954, Brooklyn; M.D. 1958, S.U.N.Y. (New York City). [1961; 1970]
- Mahroo Hagbin, *Assistant Professor of Pediatrics*. Clinical Assistant Pediatrician, Memorial Hospital. M.D. 1958, Tehran Medical School. [1969]
- John G. Halverstam, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. B.A. 1956, M.A., 1959, Trinity College (Cambridge, England); M.B.B. 1959, London University (DA) R.C.S. L. R. C. P. 1963, Royal College of Surgeons of England. [1969]
- Martin D. Hamburg, *Assistant Professor of Anatomy*. B.A. 1965, N.Y.U.; Ph.D. 1969, University of Michigan. [1969]
- Marshall J. Hanley, *Clinical Assistant Professor of Medicine*. A.B. 1942, Columbia; M.D. 1945, N.Y.U. [1958; 1970]
- Peter C. Harpel, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Harvard. [1963; 1968]
- Thomas S. Harper, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1937, California Technological Institute; M.D. 1942, Colorado. [1966]
- Irving B. Harrison, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Cornell. [1968]
- Margaret O. Harrison, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiologist, Hospital for Special Surgery. [1968]
- Royal J. Haskell, Jr., *Clinical Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). A.B. 1952, Syracuse; M.A. 1958, Ph.D., 1959, Johns Hopkins. [1968]
- Arthur H. Hayes, Jr., *Assistant Dean; Assistant Professor of Medicine; Assistant Professor of Pharmacology*. Assistant Attending Physician, New York Hospital. A.B. 1955, University of Santa Clara; M.A. 1957, Oxford University (England); M.D. 1964, Cornell. [1965; 1968]
- Margaret C. Heagarty, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1957, Seton Hill; B.S. 1959, West Virginia; M.D. 1961, Pennsylvania. [1968]
- Lawrence Helson, *Assistant Professor of Pediatrics*. B.S. 1953, C.C.N.Y.; M.S. 1957, N.Y.U.; M.D. 1962, University of Geneva (Switzerland). [1968; 1970]
- Thomas F. Henley, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1936, North Carolina; M.D. 1938, Harvard. [1943; 1966]
- Philip S. Herbert, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1947, M.D. 1951, Cornell. [1952; 1968]
- Richard Herrmann, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1951, M.D. 1955, Columbia. [1961; 1965]
- Alexander Hersh, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon (Orthopedics), New York Hospital; Associate Attending Surgeon, Hospital for Special Surgery. B.S. 1930, M.D. 1934, New York University. [1951; 1958]
- Norman L. Higinbotham, *Clinical Assistant Professor of Surgery*. Attending Surgeon, Memorial Hospital. M.D.C.M. 1926, McGill. [1940; 1950]
- Basil S. Hilaris, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital; Assistant Attending Radiation Therapist, Memorial Hospital. M.D. 1955, University of Athens. [1965; 1966]
- Margaret W. Hilgartner, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1946, Bryn Mawr; M.A. 1952, M.D. 1955, Duke. [1956; 1967]
- Ann C. Hill, *Clinical Assistant Professor of Medicine*. B.S. 1958, University of North Dakota; M.D. 1962, Northwestern. [1967; 1970]
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- Raymond B. Hochman, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Yale; M.D. 1956, Harvard. [1957; 1967]
- Thomas A. Hodgson, *Assistant Professor of Economics in Public Health*. B.A. 1962, Swarthmore; M.A. 1966, Ph.D. 1969, Cornell. [1968; 1969]

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- Eugene L. Horgan, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, M.D. 1943, Duke. [1945; 1959]
- Herbert I. Horowitz, *Clinical Assistant Professor of Medicine*. B.A. 1949, Yale; M.D. 1953, State University College of Medicine, New York City. [1960; 1962]
- Donald W. Hoskins, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1953, Queens College; M.D. 1957, Cornell. [1960; 1965]
- S. Steven Hotta, *Assistant Professor of Biochemistry*. A.B. 1950, Ph.D. 1953, California; M.D. 1958, Johns Hopkins. [1961]
- Chen Ya Huang, *Assistant Professor of Anatomy in Surgery (Orthopedics)*. B.S. 1947, Fukien Christian University; M.S. 1957, Case Western Reserve; Ph.D. 1964, Columbia. [1965; 1970]
- Gustavus A. Humphreys, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. A.B. 1927, Princeton; M.D. 1932, Columbia. [1937; 1946]
- James R. Hurley, *Assistant Professor of Medicine; Assistant Professor of Radiology*. Assistant Attending Physician, New York Hospital. A.B. 1957, M.D. 1961, Cornell. [1963; 1968]
- Martin D. Hyman, *Assistant Professor of Sociology in Medicine*. A.B. 1955, Princeton; M.A. 1958, Ph.D. 1964, Columbia. [1965; 1967]
- John N. Insall, *Clinical Assistant Professor of Surgery (Orthopedics)*. B.A. 1953, M.B.B. Ch. 1956, Cambridge University (England). [1965; 1970]
- Charles E. Inturrisi, *Assistant Professor of Pharmacology*. B.S. 1962, Connecticut; M.S. 1965, Ph.D. 1967, Tulane. [1969]
- Marian Isaacs, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1948, M.D. 1951, Colorado. [1961; 1966]
- Norman J. Isaacs, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, M.A. 1950, New York University; M.D. 1954, New York Medical College. [1959; 1967]
- Rita G. Jacobs, *Assistant Professor of Anesthesiology*. Associate Attending Anesthesiologist, Memorial Hospital. B.A. 1947, N.Y.U.; M.D. 1951, Woman's Medical College of Pennsylvania. [1959; 1968]
- Peter T. Janulis, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1948, M.D. 1951, Cornell. [1955; 1965]
- Patricia G. Johansen, *Assistant Professor of Biochemistry in Medicine*. B.Sc. 1953, M.Sc. 1955, University of Melbourne (Australia); Ph.D. 1958, University of London. [1969]
- Warren D. Johnson, Jr., *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1958, Carroll College; M.D. 1962, Columbia. [1965; 1969]
- Vincent A. Joy, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1946, Fordham; M.D. 1950, Duke. [1963; 1969]
- Lawrence J. Kagen, *Assistant Professor of Medicine*. B.S. 1957, M.D. 1960, N.Y.U. [1970]
- Ivan J. Kahn, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1955, University of Michigan; M.D. 1959, Rochester. [1963; 1969]
- Francis Kane, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1940, University of Buffalo. [1946; 1966]
- Anna Kara, *Assistant Professor of Medicine (Physical Medicine)*. M.D. 1948, University of Montreal. [1957; 1964]
- Marilyn G. Karmason, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Barnard; M.D. 1953, Harvard. [1956; 1967]
- Richard P. Karoll, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1952, N.Y.U.; M.D. 1956, S.U.N.Y. (Brooklyn). [1963; 1969]
- J. Harry Katz, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1932, Pennsylvania; M.D. 1936, Hahnemann. [1956; 1964]
- Joseph T. Kauer, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1933, New York University; M.D. 1937, Cornell. [1938; 1953]
- Richard J. Kaufman, *Clinical Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. B.A. 1948, Harvard; M.D. 1952, Columbia. [1966; 1970]
- Avraam T. Kazan, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1934, Princeton; M.D. 1938, Columbia. [1965]
- Edward B. C. Keefer, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1939; M.D.C.M. 1943, McGill. [1946; 1955]
- M. Dorothea Kerr, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1944, Ohio State; M.D. 1950, Columbia. [1952; 1968]
- John G. Keuhnelian, *Clinical Assistant Professor of Surgery (Urology)*. Assistant At-

- tending Surgeon, New York Hospital. A.B. 1947, Princeton; M.D. 1951, Pennsylvania. [1955; 1966]
- Anne C. Kimball, *Assistant Professor of Microbiology in Medicine*. B.A. 1929, Montana; Ph.D. 1940, Pennsylvania. [1963; 1964]
- Thomas K. C. King, *Assistant Professor of Medicine*. M.B., Ch.B. 1959, M.D. 1963, University of Edinburgh (Scotland). [1969]
- Jeremy M. Kisch, *Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). A.B. 1962, Brooklyn; M.A., Ph.D. 1967, University of Michigan. [1968]
- Harvey Klein, *Assistant Professor of Medicine*. B.S. 1959, Chicago; M.D. 1963, Harvard. [1964; 1970]
- Neil Klein, *Clinical Assistant Professor of Medicine*. A.B. 1956, Columbia; M.D. 1960, Cornell. [1961; 1970]
- Edward M. Kline, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1930, Washington and Jefferson; M.D. 1934, Western Reserve. [1966]
- Susan A. Kline, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1959, Ohio University; M.D. 1963, Northwestern. [1967; 1969]
- Robert G. Knight, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1943, Harvard; M.D. 1947, Cornell. [1965]
- Jerome Kroll, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1957, Brown; M.D. 1961, Albert Einstein. [1966; 1969]
- Margaret M. Kugler, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959]
- Leon Kutner, *Assistant Professor of Microbiology*. B.A. 1949, Temple; M.S. 1950, Ph.D. 1953, Pennsylvania State University; M.D. 1963, Pennsylvania. [1964]
- Mortimer J. Lacher, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. B.A. 1951, Syracuse; M.D. 1955, Chicago. [1961; 1968]
- Costas T. Lambrew, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Wesleyan University; M.D. 1957, Cornell. [1958; 1964]
- Charles S. La Monte, *Assistant Professor of Medicine*. Clinical Assistant Physician, Memorial Hospital. A.B. 1956, M.D. 1960, Harvard. [1961; 1966]
- Bernard Landis, *Clinical Assistant Professor of Psychology in Psychiatry*. B.S. 1948, Syracuse; M.A. 1959, Ph.D. 1963, New School for Social Research. [1963; 1966]
- Allison B. Landolt, *Clinical Assistant Professor of Psychiatry*. A.B. 1941, Princeton; M.D. 1944, Columbia. [1947; 1967]
- Harold L. Leder, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1935, M.D. 1939, New York University. [1950; 1966]
- Burton J. Lee III, *Clinical Assistant Professor of Medicine*. B.A. 1952, Yale; M.D. 1956, Columbia. [1962; 1965]
- Robert E. Lee, *Clinical Assistant Professor of Medicine in Psychiatry*. Consultant in Medicine, New York Hospital (Westchester Division). A.B. 1948, Colgate; M.D. 1952, Cornell. [1955; 1966]
- Robert D. Leeper, *Assistant Professor of Medicine*. B.S. 1949, Idaho; M.D. 1953, Columbia. [1962]
- Leo R. Lese, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. B.A. 1951, N.Y.U.; M.D. 1955, New York State University. [1958; 1968]
- Roberto Levi, *Assistant Professor of Pharmacology*. M.D. 1960, University of Florence. [1966]
- David C. Levin, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.A. 1955, Cornell; M.D. 1964, Johns Hopkins. [1969]
- David B. Levine, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon, (Orthopedics), New York Hospital; Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery. 1954, Dartmouth; M.D. 1957, State University of New York, Syracuse. [1961; 1967]
- John Sidney Lewis, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. M.D. 1943, University of Alberta. [1952; 1964]
- Marjorie Lewisohn, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1940, Michigan; M.D. 1944, Johns Hopkins. [1947; 1966]
- John E. Lewy, *Assistant Professor of Pediatrics*. B.A. 1956, University of Michigan; M.D. 1960, Tulane. [1966; 1970]
- Jerrold S. Lieberman, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1943, M.D. 1946, Cornell. [1951; 1960]
- Robert W. Lightfoot, Jr., *Assistant Professor of Medicine*. A.B. 1958, M.D. 1961, Vanderbilt. [1970]
- Stephen D. Litwin, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1955, Brooklyn; M.D. 1959, N.Y.U. [1969]

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- Michael D. Lockshin, *Assistant Professor of Medicine*. A.B. 1959, M.D. 1963, Harvard. [1970]
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- William D. Longaker, *Clinical Assistant Professor of Psychiatry*. B.A. 1942, Swarthmore; M.D. 1945, Pennsylvania. [1953; 1969]
- Armand W. Loranger, *Assistant Professor of Psychology in Psychiatry*. B.A. 1952, St. Mary's; M.A. 1955, Ph.D. 1958, Fordham. [1965; 1967]
- Lucile Loseke, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955]
- Sidney J. Louis, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.Sc. 1952, M.B.B.Ch. 1956, Witwatersrand University; M.R.C.P. 1959, Royal College of Physicians, Edinburgh. [1965; 1969]
- Luther B. Lowe, Jr., *Clinical Assistant Professor of Medicine; Assistant Professor of Pediatrics (Dermatology)*. Assistant Attending Physician, New York Hospital. B.S. 1958, Roanoke; M.D. 1962, Cornell. [1963; 1967]
- Norton M. Luger, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1940, Brooklyn College; M.D. 1944, St. Louis University. [1952; 1963]
- William V. Lulow, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1933, Yale; M.D. 1937, Tufts. [1952; 1964]
- Michael Lyons, *Assistant Professor of Microbiology*. B.Sc. 1953, M.Sc. 1954, National University of Ireland; Ph.D. 1958, University of Glasgow, Scotland. [1968]
- Thomas M. Maack, *Assistant Professor of Physiology*. M.D. 1962, University of Sao Paulo (Brazil). [1969]
- Nicholas T. Macris, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1953, Columbia; M.D. 1958, State University of New York, Brooklyn. [1963; 1967]
- John P. Maher, *Clinical Assistant Professor of Public Health*. B.S. 1956, St. Peter's; M.D. 1960, S.U.N.Y. (Downstate) M.P.H. 1968, Harvard. [1969]
- Richard B. Makover, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1960, Yale; M.D. 1964, Albert Einstein. [1970]
- Alfred E. Mamelok, *Clinical Assistant Professor of Ophthalmology*. A.B. 1943, Columbia; M.D. 1946, New York. [1953; 1970]
- Leon I. Mann, *Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician, New York Hospital. A.B. 1957, Dartmouth; M.D. 1961, Albert Einstein. [1969]
- Mark R. Marciano, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, Columbia; M.D. 1954, Syracuse. [1959; 1966]
- Cyril C. Marcus, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1951, Syracuse; M.D. 1954, State University of New York, Syracuse. [1958; 1965]
- Mary H. Markham, *Clinical Assistant Professor of Otorhinolaryngology*. Assistant Attending Otorhinolaryngologist, New York Hospital. A.B. 1928, M.Sc. 1930, Rutgers; M.D. 1940, Ohio State. [1942; 1970]
- Frederick W. Martens, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. M.E. 1949, Stevens Institute; M.D. 1957, Cornell. [1959; 1965]
- Nael Martini, *Assistant Professor of Surgery*. Clinical Assistant Surgeon, Memorial Hospital. B.A. 1951, M.D. 1955, American University of Beirut. [1967; 1970]
- Rene C. Mastrovito, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1949, Cornell; M.Sc. 1951, Ohio State; M.D. 1957, Baylor. [1958; 1968]
- Victor Mayer, *Clinical Associate Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon (Orthopedics), New York Hospital. A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958]
- Robert M. McCune, Jr., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955]
- James F. McGovern, *Clinical Assistant Professor of Medicine*. A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962]
- Lillian E. McGowan, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1929, Hunter; M.D. 1933, N.Y.U. [1937; 1968]
- John F. McGrath, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1938, Amherst; M.D. 1942, Cornell. [1951; 1969]
- Marion McIlveen, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958]



- William K. McKnight, *Clinical Assistant Professor of Psychiatry*. B.S. 1934, M.D. 1935, University of Pittsburgh. [1941; 1965]
- Frederick C. McLellan, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948]
- George McLemore, Jr., *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Cert. Med. 1946, North Carolina; M.D. 1948, Harvard. [1956; 1964]
- Charles J. McPeak, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. B.S. 1941, M.D. 1944, Temple University. [1953; 1966]
- Charles K. McSherry, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. B.S. 1953, Fordham; M.D. 1957, Cornell. [1958; 1966]
- Allen W. Mead, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1949, Davidson; M.D. 1953, Cornell. [1960; 1965]
- Stanley T. Michael, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1937, University of Prague. [1955; 1964]
- Daniel G. Miller, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960]
- Lawrence C. Miller, *Clinical Assistant Professor of Psychiatry*. B.A. 1949, Syracuse; M.D. 1955, University of Zurich. [1969]
- Mitsuhiko Miura, *Assistant Professor of Neurology*. DMSc. 1964, M.D. 1959, Chiba University School of Medicine, Chiba, Japan. [1966; 1969]
- David W. Molander, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.S., M.D. 1946, Minnesota. [1951; 1967]
- Harry H. Moorhead, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1950, University of Louisville. [1966]
- Timothy B. Moritz, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1959, Ohio State; M.D. 1963, Cornell. [1965; 1969]
- Anna J. Munster, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Strasbourg, France. [1968]
- Alfred J. Nadel, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.A. 1956, Union; M.D. 1960, Columbia. [1967; 1970]
- Willibald Nagler, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1958, University of Vienna. [1963; 1967]
- Werner Nathan, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1936, University of Pisa, Italy. [1968]
- Bernard Nathanson, *Clinical Assistant Professor of Obstetrics and Gynecology*. Associate Attending Obstetrician and Gynecologist, New York Hospital. M.D. 1949, McGill. [1957; 1962]
- Karl Neumann, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1953, Syracuse; M.D. 1958, S.U.N.Y. (Brooklyn). [1962; 1968]
- Rebecca F. Notterman, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. R.N. 1945, B.S. 1948, M.D. 1952, N.Y.U. [1954; 1958]
- Eladio A. Nunez, *Assistant Professor of Radiology; Assistant Professor of Physiology in Medicine*. B.S. 1951, M.S. 1953, St. John's; Ph.D. 1964, N.Y.U. [1964; 1968]
- Irwin Nydick, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1945, M.D. 1949, Columbia. [1953; 1960]
- Manuel Ochoa, Jr., *Assistant Professor of Medicine*. Associate Attending Physician, Memorial Hospital. A.B. 1951, M.D. 1955, Columbia. [1968]
- Daniel J. O'Donovan, *Visiting Assistant Professor of Physiology*. B.Sc. 1956, University College (Dublin); M.S. 1960, Cornell; Ph.D. 1963, Rochester. [1970]
- Michiko Okamoto, *Assistant Professor of Pharmacology*. B.S. 1954; Tokyo College of Pharmacy, M.S. 1957, Purdue; Ph.D. 1964, Cornell. [1964; 1967]
- Jane F. O'Neil, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1932, Cornell; M.D. 1936, Rochester. [1942; 1968]
- Robert S. Ort, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.S. 1947, M.S. 1949, Ph.D. 1951, Purdue; M.D. 1959, Case Western Reserve. [1969]
- Gideon G. Panter, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1956, M.D. 1960, Cornell. [1961; 1968]
- Francis S. Perrone, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. M.D. 1950, Cornell. [1956; 1964]
- Hart deC. Peterson, *Assistant Professor of Pediatrics (Neurology); Assistant Professor of Neurology*. Assistant Attending Pediatrician

## 64 Faculty

- cian; Assistant Attending Neurologist, New York Hospital. A.B. 1954, Middlebury; M.D. 1958, Boston University. [1963; 1966]
- Paul E. Phillips, *Assistant Professor of Medicine*. A.B. 1958, Princeton; M.D. 1962, Albany. [1970]
- Lou Ann Pilkington, *Assistant Professor of Physiology*. M.S. 1959, Ph.D. 1961, University of Oklahoma. [1963; 1967]
- Edward L. Pinney, Jr., *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1947, West Virginia School of Medicine; A.B. 1949, Princeton; M.D. 1949, Washington University (St. Louis). [1968]
- Olive E. Pitkin, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1943, Bennington; M.D. 1947, Yale. [1968]
- Virginia Pomeranz, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1945, University of Michigan; M.D. 1949, S.U.N.Y. (Brooklyn). [1956; 1968]
- Raymond A. Pope, *Assistant Professor of Radiology (Physics)*. Assistant Attending Physicist, Memorial Hospital. Ph.D. 1965, Cambridge University. [1968]
- Robert Porro, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. A.B. 1956, University of California (Los Angeles); M.D. 1960, Duke. [1969]
- Aurelia Potor, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1936, Western Reserve; B.M. 1940, M.D. 1941, Cincinnati. [1955; 1969]
- John H. Prunier, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1952, Colgate; M.D. 1956, Cornell. [1957; 1967]
- Stuart H. Q. Quan, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.A. 1941, Stanford; M.D. 1945, Harvard. [1949; 1969]
- Jacques M. Quen, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.Sc. 1948, Bethany College; M.Sc. 1950, Brown; M.D. 1954, Yale. [1961; 1966]
- Edwin R. Ranzenhofer, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1950, Rutgers; M.D. 1954, Yale. [1961; 1969]
- Richard Raskind, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Surgeon, Manhattan Eye, Ear and Throat Hospital. A.B. 1955, Yale; M.D. 1959, Rochester. [1967; 1969]
- Joseph V. Raziano, *Clinical Assistant Professor of Obstetrics and Gynecology*. B.A. 1958, M.D. 1962, Cornell. [1963; 1970]
- Robert Riggio, *Assistant Professor of Biochemistry (Surgery)*; Assistant Professor of Surgery (Biochemistry). B.A. 1954, Dartmouth; M.D. 1958, New York. [1966; 1969]
- Seymour H. Rinzler, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1934, Cornell; M.D. 1938, New York University. [1952; 1966]
- Abraham Risk, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. 1952, St. Francis Xavier; M.D. 1956, Dalhousie Medical (Halifax). [1962; 1969]
- Philip S. Robbins, *Clinical Assistant Professor of Psychiatry*. A.B. 1948, M.D. 1954, Cornell. [1957; 1970]
- Theodore Robertson, *Clinical Assistant Professor of Pathology*. B.S. 1939, M.D. 1943, Cornell. [1947; 1969]
- Fred V. Rockwell, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. A.B. 1931, M.D. 1936, Rochester. [1939; 1946]
- Toby C. Rodman, *Assistant Professor of Anatomy*. B.S. 1937, Philadelphia College of Pharmacy and Science; M.S. 1961, Ph.D. 1963, N.Y.U. [1969; 1970]
- Charles E. Rogers, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. B.S. 1942, M.D. 1945, Marquette. [1969]
- Isadore Rosenfeld, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.Sc. 1947, M.D.C.M. 1951, McGill. [1958; 1964]
- Albert Ross, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1956, Swarthmore; M.D. 1960, Yale. [1964; 1970]
- Plinio Rossi, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. M.D. 1952, University of Rome. [1965; 1967]
- Edmund O. Rothchild, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1953, N.Y.U.; M.D. 1957, Cornell. [1961; 1968]
- Emmanuel Rudd, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Hospital for Special Surgery. B.A. 1932, M.D. 1939, University of Paris. [1956; 1963]
- Richard Rutkin, *Assistant Professor of Psychology in Psychiatry*. B.B.A. 1960, M.S. 1962, C.C.N.Y. Ph.D. 1966, Houston. [1968; 1969]
- Gail M. Ryan, *Assistant Professor of Anesthesiology*. Clinical Assistant Anesthesiologist, Memorial Hospital. B.A. 1956, M.D. 1960, University of California. [1964; 1970]
- Richard M. Sallick, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1958, Harvard; M.D. 1962, Cornell. [1964; 1969]

- Sirgay Sanger, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1956, M.D. 1960, Harvard. [1967]
- Stephen S. Scheidt, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1960, Princeton; M.D. 1965, Columbia. [1968; 1970]
- Ellen Scheiner, *Assistant Professor of Medicine*. A.B. 1952, Brooklyn; M.D. 1960, University of Lausanne (Switzerland). [1962; 1970]
- Alfred L. Scherzer, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. A.B. 1949, M.S.P.H. 1950, Ed.D. 1954, Columbia; M.A. 1957, Yale; M.D. 1963, Columbia. [1964; 1966]
- Marie-Louise Schoelly, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1942, University of Zurich. [1950; 1965]
- Edward T. Schubert, *Assistant Professor of Biochemistry (Pediatrics); Assistant Professor of Biochemistry in Pediatrics*. B.S. 1949, M.S. 1952, Ph.D. 1959, Fordham. [1959; 1969]
- Jean E. Schultz, *Clinical Assistant Professor of Psychiatry*. Assistant Director, Division of Psychiatry, North Shore Hospital. B.S. 1950, Bates; M.D. 1956, Woman's Medical College; M.P.H. 1960, M.S. 1967, Columbia. [1969]
- Leonard Schuyler, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1936, City College of New York; M.D. 1950, Duke. [1954; 1965]
- Ernest Schwartz, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1945, A.M. 1950, M.D. 1951, Columbia. [1958; 1963]
- Gabriel H. Schwartz, *Assistant Professor of Biochemistry (Surgery); Assistant Professor of Surgery (Biochemistry)*. A.B. 1958, Princeton; M.D. 1962, Columbia. [1966; 1969]
- Samuel Seal, *Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960]
- Jeri A. Sechzer, *Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). B.S. 1956, N.Y.U.; M.A. 1961, Ph.D. 1962, Pennsylvania. [1970]
- William Seed, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1954, Williams; M.D. 1962, Cornell. [1966; 1968]
- Edward E. Seelye, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1948, Columbia; M.D. 1955, Albany. [1958; 1968]
- Frank A. Seixas, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1939, Cornell; M.A. 1947, M.D. 1951, Columbia. [1955; 1968]
- Henry M. Selby, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957]
- Michael A. Selzer, *Clinical Assistant Professor of Psychiatry; Clinical Assistant Professor of Psychiatry in Pediatrics*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1955, Stanford; M.D. 1960, Western Reserve. [1966; 1967]
- John H. Seward, *Clinical Assistant Professor of Otorhinolaryngology*. B.S. 1956, M.A. 1958, Duke; M.D. 1961, New York. [1962; 1970]
- William R. Shapiro, *Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. B.A. 1958, University of California (Los Angeles); M.D. 1961, University of California (San Francisco). [1963; 1969]
- Charles Sheard, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians, Canada. [1951; 1960]
- Raymond L. Sherman, *Assistant Professor of Medicine*. A.B. 1956, Columbia; M.D. 1961, S.U.N.Y. (New York City). [1968; 1970]
- Madoka Shibuya, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1962; 1966]
- Helen N. Siegrist, *Assistant Professor of Social Work in Psychiatry*. B.A. 1930, Wellesley; M.S.W. 1932, New York School of Social Work. [1959; 1969]
- Frederick Silverman, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. A.B. 1949, Emory; M.D. 1953, Indiana. [1957; 1968]
- Gerald M. Silverman, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1950, M.D. 1953, Cornell. [1958; 1965]
- Robert M. Simon, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1955, Harvard; M.D. 1959, Albert Einstein. [1969]
- Harry A. Sinclair, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1943, Amherst; M.D. 1946, Cornell. [1949; 1968]
- David I. Smith, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. B.S. 1952, Union Col-

- lege; M.D. 1956, New York University. [1960; 1966]
- E. Fletcher Smith, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1924, M.D. 1928, University of Texas. [1943; 1970]
- James P. Smith, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1956, M.D. 1960, Georgetown. [1961; 1967]
- James W. Smith, *Clinical Assistant Professor of Surgery (Plastic Surgery)*. Assistant Attending Plastic Surgeon, New York Hospital. B.S. 1948, Western Reserve; M.D. 1952, Columbia. [1957; 1963]
- John K. Smith, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1957, M.D. 1960, Cornell. [1961; 1968]
- Martha L. Smith, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958]
- Nora Smith, *Clinical Assistant Professor of Psychiatry*. B.S. 1956, Brooklyn; M.D. 1960, S.U.N.Y. (New York City). [1969]
- Ruth E. Snyder, *Clinical Assistant Professor of Radiology*. B.A. 1932, Park College; M.D. 1936, Texas. [1952; 1964]
- Stuart S. Snyder, *Clinical Assistant Professor of Ophthalmology*. Assistant Attending Ophthalmologist, New York Hospital. B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951]
- Gail E. Solomon, *Assistant Professor of Neurology*. A.B. 1958, Smith; M.D. 1962, Albert Einstein. [1964; 1970]
- James H. Spencer, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.A. 1952, Amherst; M.A. 1953, Stanford; M.D. 1960, Cornell. [1962; 1966]
- George Stassa, *Assistant Professor of Anatomy; Assistant Professor of Radiology*. A.B. 1956, M.D. 1960, Columbia. [1964; 1967]
- Tom G. Stauffer, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). A.B. 1940, M.D. 1943, Washington University. [1965]
- E. Thomas Steadman, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. B.A. 1950, M.A. 1953, Amherst; M.D. 1957, Cornell. [1958; 1968]
- Peter H. Stern, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1941, University of Berlin; M.D.B.S., Innsbruck. [1961; 1966]
- Norma W. Sternberg, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, Memorial Hospital. M.D. 1955, Univeridade de Sao Paulo (Brazil). [1958; 1970]
- Leonard R. Straub, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1940, Fordham; M.D. 1943, Cornell. [1949; 1964]
- John F. Struve, *Clinical Assistant Professor of Otorhinolaryngology*. Associate Attending Otorhinolaryngologist, New York Hospital. A.B. 1943, Allegheny; M.D. 1947, Jefferson. [1950; 1969]
- Joseph D. Sullivan, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959]
- Myron Susin, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1956, Augustana College; M.D. 1960, Illinois. [1969]
- Dieter H. Sussdorf, *Assistant Professor of Microbiology*. B.A. 1952, University of Kansas City; Ph.D. 1956, Chicago. [1963]
- David Susman, *Clinical Assistant Professor of Anesthesiology*. Assistant Attending Anesthesiologist, New York Hospital. M.D. 1962, Queen's University (Canada). [1963; 1969]
- Marguerite P. Sykes, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. M.D. 1948, New York University. [1955; 1957]
- Endre M. Tarjan, *Assistant Professor of Biochemistry in Medicine*. B.S. 1956, L. Eotvos University (Hungary); Ph.D. 1966, Minnesota. [1970]
- John D. Termine, *Assistant Professor of Biochemistry (Surgery)*. B.S. 1960, St. John's; M.S. 1963, University of Maryland; Ph.D. 1966, Cornell. [1966; 1969]
- Robert J. Timberger, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1956, M.D. 1960, Cornell. [1961; 1970]
- Ichiro Toida, *Visiting Assistant Professor of Public Health*. M.D. 1953, Tokyo University. [1968]
- Peter S. Tolins, *Clinical Assistant Professor of Pediatrics*. B.A. 1944, M.D. 1947, Cornell. [1959; 1964]
- H. Randall Tollefsen, *Clinical Assistant Professor of Surgery (Memorial)*. Associate Attending Surgeon, Memorial Hospital. M.D. 1935, Nebraska. [1952; 1965]
- Lester M. Tourk, *Assistant Professor of Psychology in Psychiatry*. Assistant Attending Psychologist, New York Hospital (Westchester Division). B.B.A. 1962, M.S. 1965, C.C.N.Y.; Ph.D. 1969, Pittsburgh. [1969]
- Lewis N. Travis, *Clinical Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. A.B. 1951, Harvard; M.D., B.S. 1960, Middlesex Hospital Medical School (England). [1965; 1970]
- Maurice Tulin, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, North Shore Hospital. B.S. 1938, Trinity; M.D. 1942, Yale. [1945; 1969]

- Louis Vorhaus, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1944, Harvard; M.D. 1946, Columbia. [1955; 1965]
- Gary I. Wadler, *Assistant Professor of Medicine*. Assistant Attending Physician, North Shore Hospital. B.S. 1960, Brooklyn; M.D. 1964, Cornell. [1965; 1970]
- Morton L. Wadsworth, *Clinical Assistant Professor of Psychiatry*. Ph.B. 1929, M.D. 1934, Chicago. [1950; 1969]
- Peter S. Walker, *Assistant Professor of Bioengineering in Surgery (Orthopedics)*. Project Engineer, Bioengineering Department, Hospital for Special Surgery. B.A. 1963, M.A. 1966, Cambridge University; Ph.D. 1969, Leeds University (England). [1969]
- Lila A. Wallis, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1947, Barnard; M.D. 1951, Columbia. [1952; 1963]
- Bettina Warburg, *Clinical Assistant Professor of Psychiatry*. A.B. 1921, Bryn Mawr; M.D. 1926, Cornell. [1965]
- Porter H. Warren, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). M.D. 1952, Tulane. [1961; 1968]
- Claude G. Wasterlain, *Assistant Professor of Neurology*. Assistant Attending Neurologist, New York Hospital. M.D. 1961, University of Liege (Belgium). [1964; 1970]
- Carolyn W. Watson, *Clinical Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. B.A. 1945, Hollins; M.D. 1949, Maryland. [1965; 1967]
- Robin C. Watson, *Assistant Professor of Radiology*. M.B., B.S. 1955, St. Thomas Hospital School of Medicine (London). [1962; 1965]
- Henriette L. Wayne, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. M.D. 1937, University of Bonn; Sc.D. 1940, University of Aix-Marseille. [1956; 1964]
- John Weber, *Assistant Professor of Anatomy*. B.A. 1961, Columbia; D.D.S. 1965, Columbia. [1967; 1969]
- Clinton G. Weiman, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1949, Princeton; M.D. 1949, Cornell. [1950; 1963]
- Babette B. Weksler, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.A. 1958, Swarthmore; M.D. 1963, Columbia. [1968; 1970]
- Marc E. Weksler, *Assistant Professor of Medicine*. B.A. 1958, Swarthmore; M.D. 1962, Columbia. [1968; 1970]
- William Wheat, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. B.S. 1946; M.D. 1950, Louisiana State University. [1964]
- Stephen White, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1932; 1970]
- Carl Wierum, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. B.S. 1945, Columbia; M.D. 1951, Cornell. [1952; 1967]
- Peter G. Wilson, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. A.B. 1953, M.D. 1957, Columbia. [1959; 1965]
- Sidney J. Winawer, *Clinical Assistant Professor of Medicine*. A.B. 1952, N.Y.U.; M.D. 1956, S.U.N.Y. (New York City). [1966]
- Patricia H. Winchester, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. B.S. 1955, M.D. 1959, Duke. [1960; 1968]
- Michael J. Wolk, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. A.B. 1960, Colgate; M.D. 1964, Columbia. [1969]
- Katsuhiko Yano, *Assistant Professor of Public Health*. M.D. 1951, Ph.D. 1961, Hiroshima Prefectural Medical College, Japan. [1967]
- Alvin Yapalater, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital (Westchester Division). B.A. 1943, Oklahoma; M.D. 1946, Tulane. [1966]
- Samuel D. J. Yeh, *Assistant Professor of Medicine*. M.D. 1948, National Defense Medical Center, Shanghai; D.Sc. 1954, Johns Hopkins. [1965; 1969]
- Charles W. Young, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. A.B. 1952, Columbia; M.D. 1956, Harvard. [1957; 1966]
- Louis C. Zang, *Assistant Professor of Psychiatry*. M.D. 1946, Baylor. [1969; 1970]
- Stanley S. Zipser, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956]
- Philip H. Zweifach, *Clinical Assistant Professor of Neurology; Clinical Assistant Professor of Ophthalmology*. Assistant Attending Neurologist, New York Hospital. B.S. 1957, C.C.N.Y.; M.D. 1961, Cornell. [1965; 1970]



# Description of Courses

## Anatomy

Roy C. Swan, Joseph C. Hinsey Professor of Anatomy, Chairman  
John MacLeod, Professor of Anatomy

Dorothea Bennett, Associate Professor of Anatomy

Dana C. Brooks, Associate Professor of Anatomy

James L. German III, Clinical Associate Professor of Anatomy

Michael D. Gershon, Associate Professor of Anatomy

Wilbur D. Hagamen, Associate Professor of Anatomy

Myron Jacobs, Clinical Associate Professor of Anatomy

Thomas H. Meikle, Jr., Associate Professor of Anatomy

Leonard L. Ross, Associate Professor of Anatomy

Julio L. Sirlin, Associate Professor of Anatomy

Vittorino M. Andreoli, Visiting Assistant Professor of Anatomy

Caleb E. Finch, Assistant Professor of Anatomy

Fakhry G. Girgis, Assistant Professor of Anatomy

Martin D. Hamburg, Assistant Professor of Anatomy

John E. Lee, Clinical Assistant Professor of Anatomy

Toby C. Rodman, Assistant Professor of Anatomy

George Stassa, Assistant Professor of Anatomy

John C. Weber, Assistant Professor of Anatomy

### Instructors

Ronald W. Gillette  
Anthony Paparo

### Research Fellows

Rosemary F. Bachvarova  
D. Russell Pollard

### Assistants

Karen Artzt	Taube Rothman
Victor De Leon	Bonnie Shubart
Carol Dyer	Roger W. Soller
Lorraine Flaherty	Elizabeth Thompson
Ellen Goldberg	Jacqueline Winter-
Barry Kaplan	korn
Myron Pawliw	Glenn Wotring

The study of medicine reasonably begins with the study of the normal structure of the human body, for the first question usually

asked in any analysis of a biological system is: What are its spatial relations, its form, its configuration, and the time courses of development of these spatial relations? This is the substance, and this is the unique aspect of biological systems which constitute the anatomical sciences.

The objective is to bring this unique aspect of the human organism into focus for the first-year medical student and to present the major structural concepts and principles. The presentation aims toward some appreciation of how these concepts have evolved, how these principles have been established, and what the outstanding questions are. The student is provided with firsthand experience in some of the methods of anatomy and is encouraged to understand the principles and major limitations of most of the modern methods of anatomy. Foregoing a comprehensive, but necessarily superficial, study of human structure, an analysis is offered of representative structures, aiming to develop in the student confidence and competence for further independent study of anatomy in the years ahead. For, however powerful and indispensable current anatomical concepts are in the analysis of medical problems, they will eventually be replaced in the minds of the best physicians by much more powerful concepts.

The supervised study of anatomy, in the first and second trimesters of the first year, is organized into three courses for practical reasons. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by structural and functional systems. The brain and spinal cord are most effectively studied concurrently in their gross and microscopic aspects. A student studies under the direct supervision of one of five tutors in each course. The correlation of understanding of structure gained from these courses is encouraged by participation of staff members as tutors in two or more of these courses in the same or successive years.

**MICROSCOPIC ANATOMY AND DEVELOPMENT.** Selected concepts of fine structure, the mechanisms by which structure develops, differentiates, and ages, and the genetic control of these mechanisms are presented in lectures to indicate a pattern of study and depth of analysis which the student can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron

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micrographs, and through microscopic study of surviving tissues and cells. Modern research methods in phase, polarizing, fluorescence and electron microscopy, and in microtomy, cytochemistry, tissue culture, autoradiography, x-ray diffraction analysis, and electron probe are demonstrated. The functional and biochemical significance of fine structure is developed. Hours, 165.

**GROSS ANATOMY.** Regional anatomy is studied principally through dissection of the human body. Supplementing this are prosecutions by instructors, tutorial group discussions and radiographic and endoscopic demonstrations. Hours, 165.

**NEUROANATOMY.** The gross and microscopic structure of the brain and spinal cord is taught in an interdepartmental course in neuroscience in cooperation with the Departments of Neurology and Physiology. Lectures correlate the structure, function, and clinical significance of the principal concepts of the nervous system. Opportunity is provided in laboratory for gross dissection of the preserved human brain and for study of serial histological sections of the human brain in three different planes. The effects of stimulation and interpretation of specific neural pathways are demonstrated in experimental animals. Hours, 84.

### Elective Courses

**A. GRADUATE GENETICS SEMINAR COURSE.** Cytological Genetics. Fall, 1970. Genetics and Differentiation. Spring, 1971. Drs. Bennett, Cleve, and German.

**B. CLINICAL ANATOMY.** Each week throughout the first two trimesters in a one-hour conference, a patient will be presented whose case illustrates the application of anatomical concepts. Following each case presentation the concepts will be discussed in depth. Dr. Swan. Weeks, 22.

## Anesthesiology

Joseph F. Artusio, Jr., Professor of Anesthesiology, Chairman

William S. Howland, Professor of Anesthesiology

Benjamin E. Marbury, Clinical Professor of Anesthesiology

Marjorie J. Topkins, Clinical Professor of Anesthesiology

Alan Van Poznak, Clinical Professor of Anesthesiology

Charles L. Burstein, Clinical Associate Professor of Anesthesiology

**C. RADIOGRAPHIC ANATOMY.** A weekly conference, throughout the first two trimesters, demonstrating with modern radiographic methods regional and systemic structural and functional relations and their clinical application. Dr. Stassa. Weeks, 22.

**D. CURRENT TRENDS IN MOLECULAR BIOLOGY.** A weekly seminar for a limited number of students. Concepts introduced in the course in microscopic anatomy and development will be explored in greater depth. Dr. Sirlin. Weeks, 11.

**E. INTRODUCTION TO RESEARCH ON THE NERVOUS SYSTEM.** By means of experiments, seminars, and discussions students will be given experience in modern methods of neurological research. Techniques will include electrophysiology, small animal surgery, radioisotope methodology, biochemical measurements, and study of isolated organs. After a broad exposure to the field the student can elect to solve, with assistance, his own research problem. Spring and summer, 1971. Drs. Brooks and Gershon.

**F. A REVIEW OF DISSECTION** (students should arrange to work in pairs). Dr. Swan. Weeks, 11.

**G. GROSS ANATOMY FOR GRADUATES.** Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

**H. ADVANCED STUDY AND RESEARCH.** Opportunities for first- and second-year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students who are considering careers in preclinical science and who wish to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

Olga Schweizer, Associate Professor of Anesthesiology

Herbert Erlanger, Clinical Assistant Professor of Anesthesiology

Anita H. Goulet, Clinical Assistant Professor of Anesthesiology

John G. Halvorstam, Clinical Assistant Professor of Anesthesiology

Rita M. Jacobs, Assistant Professor of Anesthesiology

Gail M. Ryan, Assistant Professor of Anesthesiology



David Susman, Clinical Assistant Professor of Anesthesiology

#### Clinical Instructors

Leslie L. Balazs	Aileen F. Kass
Raymond G. Barile	Charles Lomanto
Dragan Borovac	Louis J. Maggio
John S. L. Chen	Carol Milchenski
Gabriel G. Curtis	Jerold Schwartz
John L. Fox	Liebert Turner
Carolyn Greenberg	Judith K. Weingram

#### Fellows

Harry I. Brown	Luis da Graca
Anthony J. Burns	Miranda
Myunghwan Chang	Susan J. Restituto
Erlina Lobrin-Farcon	Sharon Marie Rooney
Moon Young Kim	Fe Luna Rosas
Mohan H. Kulkarni	Anna Stanec
Romeo Laurente	Sheldon H. Steinbach
Homero Lopes	Dragan Vuckovic
Tote Malvar	Corazon Yandoc
Mieczslaw Midura	

**SECOND YEAR.** The Department of Anesthesiology participates in the teaching of pharmacology. Anesthetic agents are considered not only as depressants of the central nervous system but also as illustrations of the general pharmacological phenomena of drug uptake and distribution. The Department also assists in the teaching about drugs which affect respiratory mechanisms. It participates in lectures, laboratory demonstrations, and student seminars.

During the summer between the second and third years, selected students are offered a preceptorship in anesthesiology under a program supported by the American Society

of Anesthesiologists. In this experience, students spend time in the operating rooms and laboratories to see how the principles of pharmacology and physiology are put to practical use in the management of the anesthetized patient.

**THIRD YEAR.** Anesthesiology is taught during seminar-discussion periods. Subjects covered are: history of anesthesia; the anesthetic state and preanesthetic medication; pharmacology of general anesthetic agents; maintenance of breathing for patients in coma, resuscitation; balanced anesthesia; the muscle relaxants; adjuvants; hypotensive drugs; hypothermia techniques; effect of anesthesia in patients with cardiovascular disease; recent advances in anesthesia for injured patients; techniques for local and regional anesthesia.

**FOURTH YEAR.** A clinical program of four or eight weeks either in the New York Hospital or in Memorial Hospital is offered to fourth-year students. The student is assigned to an attending anesthesiologist, whom he assists during preoperative visits, administering anesthesia, and in postoperative and recovery care. Teaching emphasis is placed on respiratory physiology, therapy, and resuscitation. The student is given increasing responsibility during the elective period.

A four- or eight-week laboratory research program under the direction of Dr. Alan Van Poznak is also available. It offers experience in research methods in the study of anesthetic agents. Other research projects are also offered at Memorial Hospital under the direction of Dr. William Howland.

## Biochemistry

Alton Meister, Israel Rogosin Professor of Biochemistry, Chairman  
 Aaron S. Posner, Professor of Biochemistry  
 Julian R. Rachele, Professor of Biochemistry  
 Albert L. Rubin, Professor of Biochemistry (Surgery)

Roy W. Bonsnes, Associate Professor of Biochemistry  
 Jack Goldstein, Associate Professor of Biochemistry  
 Rudy H. Haschemeyer, Associate Professor of Biochemistry  
 Charlotte Ressler, Associate Professor of Biochemistry  
 Kurt H. Stenzel, Associate Professor of Biochemistry (Surgery)  
 Daniel Wellner, Associate Professor of Biochemistry  
 Kenneth R. Woods, Associate Professor of Biochemistry

Esther M. Breslow, Assistant Professor of Biochemistry  
 George W. Dietz, Jr., Assistant Professor of Biochemistry  
 Helena Gilder, Assistant Professor of Biochemistry (Surgery)  
 S. Steven Hotta, Assistant Professor of Biochemistry  
 Robert R. Riggio, Assistant Professor of Biochemistry (Surgery)  
 Edward T. Schubert, Assistant Professor of Biochemistry (Pediatrics)  
 Gabriel H. Schwartz, Assistant Professor of Biochemistry (Surgery)  
 John D. Termine, Assistant Professor of Biochemistry

#### Instructors

William Bruce Rowe      Suresh S. Tate

#### Research Associates

Marian Orlowski      Toshihiko Ubuka

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### Fellows

Bernard L. Brennan	Melvin L. Rueppel
Geoffrey F. Bull	Ralph Stephani
J. Cheigh	Paul Trotta
David S. David	Y. Tsuda
Margaret Hochreiter	Vaira P. Wellner
Anil G. Palekar	W. Yamayashi
S. L. N. Rao	

### Assistants

William F. Bowers	Lawrence M. Pinkus
Arthur J. L. Cooper	Noel M. Relyea
Anthony Ferrara	Paul G. Richman
Edmund Hafner	Marilyn Stephens
Bernard Horowitz	Laura Tarantino
Mona D. Jensen	Paul Van Der Werf
Louise A. Lichtenberg	Peter O. Zelazo

GENERAL BIOCHEMISTRY is given in the first, second, and third trimesters of the first year. It is designed to provide the student with a knowledge of the fundamentals of biochemistry and an appreciation of the molecular basis of biological phenomena. The course includes lectures, conferences, and demonstrations on proteins, nucleic acids, enzymes, carbohydrates, lipids, vitamins, hormones, and other compounds of biological importance. Consideration is given to metabolism, genetics, and nutrition and to the application of biochemical and biophysical principles to medicine. During the third trimester, the student may elect to participate in laboratory research work, or he may choose to undertake intensive library research on a specific topic for the purpose of preparing and writing a scholarly report. As part of the general biochemistry course, students will select from several of the following advanced biochemistry topics to complete the course requirements.

ASPECTS OF NERVE TISSUE METABOLISM (Professor Hotta). The metabolism of the brain is considered from the aspect of unique features of the metabolism of glucose, including areas such as the blood-brain barrier and the  $\gamma$ -aminobutyrate shunt. Consideration is also given to the metabolism of other compounds, such as the biogenic amines, that function in the nervous system.

AMINO ACID METABOLISM AND DISEASE (Professor Meister). Lectures, student presentations, and discussions on the biochemical mechanisms involved in amino acid and ammonia metabolism, especially as related to human disease.

X-RAY DIFFRACTION: METHODS AND APPLICATION (Professor Posner and Dr. Handler-Bernich). The basic concepts of crystallography in describing the nature of solids are discussed. The application of diffraction methods in determining molecular

structure are shown, along with other uses of x-ray diffraction. Topics covered include geometrical concepts, x-ray diffraction theory and techniques, application to inorganic materials, application to biological materials. Special attention is given to the crystal chemistry of bone. Several laboratory sessions are held.

ENZYME MECHANISMS AND KINETICS (Professor Wellner). The basic principles of kinetic analysis of enzymatic reactions are reviewed. Examples from the literature are chosen to illustrate how kinetic data are used to elucidate enzyme mechanisms.

NUCLEIC ACIDS; SELECTED TOPICS (Professor Goldstein). Lectures and discussions. The isolation, characterization, and biological properties of nucleic acids, and their roles in protein biosynthesis are covered. Students are expected to read the pertinent literature, give reports, and participate in the discussions. Topics are chosen for study on the basis of inherent interest and as examples of general problems encountered in nucleic acid research.

METAL IONS IN BIOCHEMISTRY (Professor Breslow). The lectures begin with general aspects of complex formation by metal ions and lead into a consideration of the interactions of metal ions in a variety of biologically important systems. Each student is expected to report on an assigned topic related to the role of metal ions in medicine and biochemistry.

BIOCHEMISTRY OF TRANSPORT (Professor Dietz). An exploration of recent advances in the study of active transport. Special emphasis is given to bacterial transport systems. Certain problems in mammalian transport are also covered including the  $\text{Na}^+$  and  $\text{K}^+$  dependent ATPase.

PHYSICAL METHODS FOR THE STUDY OF MACROMOLECULAR STRUCTURE (Professor Haschemeyer). Theoretical and practical aspects of several physical techniques in the study of macromolecules are discussed. These techniques include ultracentrifugation, diffusion, viscosity, electron microscopy, and electrophoresis. Prerequisites: three semesters of calculus; physical chemistry; two semesters of physics; or the consent of the instructor.

BIOCHEMISTRY OF CONNECTIVE TISSUE (Professor Termine). Topics covered include the biosynthesis, metabolism, and structure of collagen, elastin, and the protein-polysaccharides. Relationships between the structure and function of these major intercellular components are also considered. Special emphasis is placed on the factors involved in the calcification process.

## Other Courses

**ADVANCED BIOCHEMISTRY.** Lectures and conferences on recent developments in biochemistry, for graduate students and qualified medical students. Hours and credits to be arranged. Professor Meister and others.

**BIOCHEMICAL PREPARATIONS AND TECHNIQUES.** Laboratory work dealing with the isolation, synthesis and analysis of substances of biochemical importance (enzymes, coenzymes, various metabolites, and inter-

mediates), and study of their properties by various chemical and physical techniques. For graduate students and qualified medical students. Hours and credits to be arranged. The staff.

**RESEARCH IN BIOCHEMISTRY.** By arrangement with the chairman of the Department. Other courses offered in advanced biochemistry are described in the *Announcement of the Graduate School of Medical Sciences* and are open to qualified medical students.

## Courses Open to Visiting Students Enrolled in Other Universities and to Special Students

**GENERAL BIOCHEMISTRY.** Fee, \$60 per point credit; three points credit for each of the first and second trimester.

**ELECTIVE COURSES.** Fee, \$60 per point credit; one point credit for each course.

**OTHER COURSES.** By special arrangement.

## Medicine

Alexander G. Bearn, Professor of Medicine, Chairman

Benjamin Alexander, Clinical Professor of Medicine

E. Lovell Becker, Professor of Medicine

Joseph H. Burchenal, Professor of Medicine

Charles L. Christian, Professor of Medicine

Farrington Daniels, Jr., Professor of Medicine (Dermatology)

Murray Dworetzky, Clinical Professor of Medicine (Allergy)

Ralph L. Engle, Jr., Professor of Medicine

Aaron Feder, Clinical Professor of Medicine

Elliot Hochstein, Clinical Professor of Medicine

Frank L. Horsfall, Professor of Medicine

William A. Kammerer, Clinical Professor of Medicine

B. H. Kean, Clinical Professor of Medicine (Tropical Medicine)

Thomas Killip, Roland Harriman Professor of Medicine

Allyn B. Ley, Professor of Medicine

E. Hugh Luckey, Professor of Medicine

Carl Muschenheim, Clinical Professor of Medicine

W. P. Laird Myers, Professor of Medicine

Ralph E. Peterson, Professor of Medicine

George G. Reader, Professor of Medicine

Sidney Rothbard, Professor of Medicine

J. James Smith, Clinical Professor of Medicine

David D. Thompson, Professor of Medicine

Douglas P. Torre, Clinical Professor of Medicine (Dermatology)

Robert F. Watson, Clinical Professor of Medicine

Seymour Advocate, Clinical Associate Professor of Medicine

Lucien I. Arditi, Clinical Associate Professor of Medicine

Samuel C. Atkinson, Clinical Associate Professor of Medicine

Jeremiah A. Barondess, Clinical Associate Professor of Medicine

Lloyd T. Barnes, Clinical Associate Professor of Medicine

David V. Becker, Associate Professor of Medicine

Richard S. Benua, Associate Professor of Medicine

Norman Brachfeld, Associate Professor of Medicine

William A. Briscoe, Associate Professor of Medicine

J. Robert Buchanan, Associate Professor of Medicine

Henry A. Carr, Clinical Associate Professor of Medicine

Aaron D. Chaves, Clinical Associate Professor of Medicine

Bayard D. Clarkson, Associate Professor of Medicine

William N. Christenson, Clinical Associate Professor of Medicine

William S. Clark, Clinical Associate Professor of Medicine

Hartwig Cleve, Associate Professor of Medicine

George O. Clifford, Associate Professor of Medicine

Eugene J. Cohen, Clinical Associate Professor of Medicine

B. Shannon Danes, Associate Professor of Medicine

John W. Dougherty, Clinical Associate Professor of Medicine

Robert E. Eckhardt, Clinical Associate Professor of Medicine

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- William J. Eisenmenger, Clinical Associate Professor of Medicine
- Borje E. V. Ejrup, Clinical Associate Professor of Medicine
- Henry R. Erle, Clinical Associate Professor of Medicine
- Arthur W. Feinberg, Clinical Associate Professor of Medicine
- John T. Flynn, Clinical Associate Professor of Medicine
- William T. Foley, Clinical Associate Professor of Medicine
- Alvin H. Freiman, Clinical Associate Professor of Medicine
- Constance Friess, Clinical Associate Professor of Medicine
- William Geller, Clinical Associate Professor of Medicine
- Robert B. Golbey, Clinical Associate Professor of Medicine
- Mary E. W. Goss, Associate Professor of Sociology in Medicine
- Sidney M. Greenberg, Clinical Associate Professor of Medicine
- Eugene L. Gottfried, Associate Professor of Medicine
- Armenio Costa Guimaraes, Visiting Associate Professor
- Keith O. Guthrie, Jr., Clinical Associate Professor of Medicine
- Susan J. Hadley, Associate Professor of Medicine
- Leonard L. Heimoff, Clinical Associate Professor of Medicine
- Henry O. Heinemann, Associate Professor of Medicine
- Lawrence E. Hinkle, Jr., Associate Professor of Medicine
- Lawrence B. Hobson, Clinical Associate Professor of Medicine
- Melvin Horwith, Clinical Associate Professor of Medicine
- Raymond W. Houde, Associate Professor of Medicine
- Abraham S. Jacobson, Clinical Associate Professor of Medicine
- Norman B. Javitt, Associate Professor of Medicine
- George L. Kauer, Jr., Clinical Associate Professor of Medicine
- Frederic T. Kirkham, Jr., Clinical Associate Professor of Medicine
- Herbert Koteen, Clinical Associate Professor of Medicine
- Irwin H. Krakoff, Associate Professor of Medicine
- John S. LaDue, Clinical Associate Professor of Medicine
- Richard E. Lee, Clinical Associate Professor of Medicine
- Mack Lipkin, Clinical Associate Professor of Medicine
- Martin Lipkin, Associate Professor of Medicine
- Edward J. Lorenze, Clinical Associate Professor of Medicine
- Daniel S. Lukas, Associate Professor of Medicine
- Aaron J. Marcus, Associate Professor of Medicine
- Klaus Mayer, Clinical Associate Professor of Medicine
- Abraham Mazur, Clinical Associate Professor of Biochemistry in Medicine
- Ellen McDavitt, Associate Professor of Medicine
- Ralph L. Nachman, Associate Professor of Medicine
- Herbert Oettgen, Associate Professor of Medicine
- Mary Ann Payne, Clinical Associate Professor of Medicine
- R. A. Rees Pritchett, Clinical Associate Professor of Medicine
- Jack Richard, Clinical Associate Professor of Medicine
- Edgar A. Riley, Clinical Associate Professor of Medicine
- William C. Robbins, Clinical Associate Professor of Medicine
- Richard B. Roberts, Associate Professor of Medicine
- Thomas N. Roberts, Clinical Associate Professor of Medicine
- Bernard Rogoff, Clinical Associate Professor of Medicine
- David M. Roseman, Clinical Associate Professor of Medicine
- Brij B. Saxena, Associate Professor of Biochemistry in Medicine
- Lawrence Scherr, Associate Professor of Medicine
- Ernest Schwartz, Clinical Associate Professor of Medicine
- Arthur W. Seligmann, Clinical Associate Professor of Medicine
- Paul Sherlock, Associate Professor of Medicine
- Maurice E. Shils, Associate Professor of Medicine
- Richard T. Silver, Clinical Associate Professor of Medicine
- Gregory W. Siskind, Associate Professor of Medicine
- Martin Sonenberg, Associate Professor of Medicine
- Lawrence S. Sonkin, Clinical Associate Professor of Medicine
- Chester M. Southam, Associate Professor of Medicine
- Herman Steinberg, Clinical Associate Professor of Medicine
- Peter E. Stokes, Associate Professor of Medicine
- Richard W. Stone, Clinical Associate Professor of Medicine
- William D. Stubenbord, Clinical Associate Professor of Medicine

- Alphonse E. Timpanelli, Clinical Associate Professor of Medicine
- Parker Vanamee, Associate Professor of Medicine
- Aaron O. Wells, Clinical Associate Professor of Medicine
- Byard Williams, Clinical Associate Professor of Medicine
- A. Lee Winston, Clinical Associate Professor of Medicine
- Henriette E. Abel, Clinical Assistant Professor of Medicine
- Robert R. Abel, Clinical Assistant Professor of Medicine
- William A. Anderson, Clinical Assistant Professor of Medicine
- Diana C. Argyros, Assistant Professor of Medicine
- George C. Armistead, Jr., Clinical Assistant Professor of Medicine
- Donald Armstrong, Assistant Professor of Medicine
- Alfred L. Aronson, Assistant Professor of Medicine
- Curtis H. Baylor, Clinical Assistant Professor of Medicine
- Bry Benjamin, Clinical Assistant Professor of Medicine
- Hermina Z. Benjamin, Clinical Assistant Professor of Medicine
- Richard E. Bettigole, Assistant Professor of Medicine
- Carl A. Bernsten, Jr., Clinical Assistant Professor of Medicine
- Harry Bienenstock, Clinical Assistant Professor of Medicine
- Robert T. Binford, Jr., Clinical Assistant Professor of Medicine
- Robert G. Brayton, Assistant Professor of Medicine
- Keeve Brodman, Clinical Assistant Professor of Medicine
- John L. Brown, Clinical Assistant Professor of Medicine
- Donald J. Cameron, Clinical Assistant Professor of Medicine
- Susan T. Carver, Assistant Professor of Medicine
- Vincent A. Cipollaro, Clinical Assistant Professor of Medicine
- Hugh E. Claremont, Clinical Assistant Professor of Medicine
- Melva A. Clark, Clinical Assistant Professor of Medicine
- Morton I. Coleman, Assistant Professor of Medicine
- C. Stephen Connolly, Clinical Assistant Professor of Medicine
- Francis P. Coombs, Clinical Assistant Professor of Medicine
- Jerome A. Covey, Clinical Assistant Professor of Medicine
- Denton S. Cox, Clinical Assistant Professor of Medicine
- Jean A. Cramer, Clinical Assistant Professor of Medicine
- Marion Davis, Clinical Assistant Professor of Medicine
- Thomas J. Degnan, Assistant Professor of Medicine
- Eleanor E. Deschner, Assistant Professor of Radiobiology in Medicine
- Monroe T. Diamond, Clinical Assistant Professor of Medicine
- Carolyn H. Diehl, Clinical Assistant Professor of Medicine
- Robert E. Dye, Clinical Assistant Professor of Medicine
- Adrian L. Edwards, Clinical Assistant Professor of Medicine
- Ralph A. Eskesen, Clinical Assistant Professor of Medicine
- Edwin Ettinger, Clinical Assistant Professor of Medicine
- Elaine Eyster, Assistant Professor of Medicine
- Thomas J. Fahey, Jr., Clinical Assistant Professor of Medicine
- George A. Falk, Assistant Professor of Medicine
- John A. Finkbeiner, Clinical Assistant Professor of Medicine
- Niall D. C. Finlayson, Assistant Professor of Medicine
- Claude E. Forkner, Jr., Clinical Assistant Professor of Medicine
- Horace T. Gardner, Clinical Assistant Professor of Medicine
- Martin Gardy, Assistant Professor of Medicine
- John M. Glynn, Clinical Assistant Professor of Medicine
- Howard Goldin, Clinical Assistant Professor of Medicine
- David L. Globus, Clinical Assistant Professor of Medicine
- George W. Gorham, Clinical Assistant Professor of Medicine
- Jose Granda, Assistant Professor of Medicine
- Ernest J. Greenberg, Clinical Assistant Professor of Medicine
- Steven J. Gulotta, Assistant Professor of Medicine
- Marshall J. Hanley, Clinical Assistant Professor of Medicine
- Peter C. Harpel, Assistant Professor of Medicine
- Arthur Hull Hayes, Jr., Assistant Professor of Medicine
- Richard A. Herrmann, Clinical Assistant Professor of Medicine
- Ann C. Hill, Clinical Assistant Professor of Medicine
- Raymond B. Hochman, Clinical Assistant Professor of Medicine
- Eugene L. Horger, Clinical Assistant Professor of Medicine
- Herbert I. Horowitz, Clinical Assistant Professor of Medicine

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- Donald W. Hoskins, Clinical Assistant Professor of Medicine
- James R. Hurley, Assistant Professor of Medicine
- Martin D. Hyman, Assistant Professor of Sociology in Medicine
- Marian Isaacs, Assistant Professor of Medicine
- Norman J. Isaacs, Clinical Assistant Professor of Medicine
- Patricia G. Johansen, Assistant Professor of Biochemistry in Medicine
- Warren D. Johnson, Jr., Assistant Professor of Medicine
- Vincent A. Joy, Clinical Assistant Professor of Medicine
- Lawrence J. Kagen, Assistant Professor of Medicine
- Ivan Kahn, Clinical Assistant Professor of Medicine
- Anna Kara, Assistant Professor of Medicine
- J. Harry Katz, Clinical Assistant Professor of Medicine
- Richard J. Kaufman, Clinical Assistant Professor of Medicine
- Anne C. Kimball, Assistant Professor of Microbiology in Medicine
- Thomas K. C. King, Assistant Professor of Medicine
- Harvey Klein, Assistant Professor of Medicine
- Neil C. Klein, Clinical Assistant Professor of Medicine
- Edward M. Kline, Clinical Assistant Professor of Medicine
- Susan A. Kline, Assistant Professor of Medicine
- Mortimer J. Lacher, Clinical Assistant Professor of Medicine
- Costas T. Lambrew, Clinical Assistant Professor of Medicine
- Charles S. LaMonte, Assistant Professor of Medicine
- Harold L. Leder, Clinical Assistant Professor of Medicine
- Burton J. Lee III, Clinical Assistant Professor of Medicine
- Robert D. Leeper, Assistant Professor of Medicine
- Leo R. Lese, Clinical Assistant Professor of Medicine
- Marjorie G. Lewisohn, Clinical Assistant Professor of Medicine
- Jerrold S. Lieberman, Clinical Assistant Professor of Medicine
- Robert W. Lightfoot, Assistant Professor of Medicine
- Stephen D. Litwin, Assistant Professor of Medicine
- Michael D. Lockshin, Assistant Professor of Medicine
- Luther B. Lowe, Clinical Assistant Professor of Medicine
- Norton M. Luger, Clinical Assistant Professor of Medicine
- Nicholas T. Macris, Clinical Assistant Professor of Medicine
- Mark R. Marciano, Clinical Assistant Professor of Medicine
- James F. McGovern, Clinical Assistant Professor of Medicine
- George A. McLemore, Jr., Clinical Assistant Professor of Medicine
- Allen W. Mead, Clinical Assistant Professor of Medicine
- Daniel G. Miller, Assistant Professor of Medicine
- David W. Molander, Clinical Assistant Professor of Medicine
- Willibald Nagler, Assistant Professor of Medicine
- Eladio Nunez, Assistant Professor of Physiology in Medicine
- Irwin Nydick, Clinical Assistant Professor of Medicine
- Manuel Ochoa, Jr., Assistant Professor of Medicine
- Francis E. Perrone, Clinical Assistant Professor of Medicine
- Paul E. Phillips, Assistant Professor of Medicine
- Aurelia Potor, Clinical Assistant Professor of Medicine
- John H. Prunier, Clinical Assistant Professor of Medicine
- Seymour H. Rinzler, Clinical Assistant Professor of Medicine
- Isadore Rosenfeld, Clinical Assistant Professor of Medicine
- Albert M. Ross, Clinical Assistant Professor of Medicine
- Edmund O. Rothschild, Assistant Professor of Medicine
- Emmanuel Rudd, Clinical Assistant Professor of Medicine
- Stephen S. Scheidt, Assistant Professor of Medicine
- Ellen Scheiner, Assistant Professor of Medicine
- Leonard H. Schuyler, Clinical Assistant Professor of Medicine
- Frank A. Seixas, Clinical Assistant Professor of Medicine
- Charles Sheard III, Clinical Assistant Professor of Medicine
- Raymond L. Sherman, Assistant Professor of Medicine
- Gerald M. Silverman, Clinical Assistant Professor of Medicine
- Harry A. Sinclair, Clinical Assistant Professor of Medicine
- James P. Smith, Assistant Professor of Medicine
- John Kelly Smith, Assistant Professor of Medicine
- Peter H. Stern, Clinical Assistant Professor of Medicine
- Marguerite P. Sykes, Assistant Professor of Medicine

Endre M. Tarjan, Assistant Professor of Biochemistry in Medicine  
 Robert J. Timberger, Clinical Assistant Professor of Medicine  
 Maurice Tulin, Clinical Assistant Professor of Medicine  
 Louis J. Vorhaus, Clinical Assistant Professor of Medicine  
 Gary I. Wadler, Assistant Professor of Medicine  
 Lila A. Wallis, Clinical Assistant Professor of Medicine  
 Babette Weksler, Assistant Professor of Medicine  
 Marc E. Weksler, Assistant Professor of Medicine  
 Clinton G. Weiman, Clinical Assistant Professor of Medicine  
 Carl Wierum, Clinical Assistant Professor of Medicine  
 Sidney J. Winawer, Clinical Assistant Professor of Medicine  
 Michael J. Wolk, Assistant Professor of Medicine  
 Samuel D. J. Yeh, Assistant Professor of Medicine  
 Charles W. Young, Assistant Professor of Medicine

#### Instructors

Karl P. Adler	Carl M. Pinsky
Karl E. Anderson	Premila Rathnam
Gary Birnbaum	(in biochemistry)
Thomas R. P. daCruz	Lynn H. Ratner
Frank G. deFuria	Lillian M. Reich
Monroe T. Dowling	Charles R. Steinberg
Alexandra Dimich	Frank J. Troncale
Joseph A. Frascino, Jr.	Alice Ullmann
Joseph C. Frantoni	(in social work)
Timothy Gee	Vincent P.
Yashar Hirshaut	Vinceguerra
Mark H. Kaplan	Francis M. Weld
Philip R. Liebson	Allan Yagoda
John B. Morrison	Lowell D. Young

#### Clinical Instructors

Robert S. Ascheim	Herman E. Kattlove
Ralph A. Baer	Ludwig Klein
Samuel H. Brethwaite	Martha C. Larsen
Robert L. Collier	Marianne Lindner
Allan H. Covey	Carlton A. MacDonald
C. Pinckney Deal, Jr.	John F. Marchand
Edgar J. Desser	Robert S. Martin
Alvin N. Ehrlich	Neva Eileen McGrath
Ernest R. Esakof	Donald G. McKaba
David Gluck	Willis A. Murphy
Margery Golden	Martin Nydick
Michael J. Goldstein	Normand E. Olivier
Charles R. Goodsell	Richard Perkins
Jack R. Harnes	Raymond E. Phillips
Helene Holtz	Sanford M. Reiss
Thomas P. Jernigan	Charles Ressler
Arthur Karanas	Melvin Rubenstein

Lawrence Scharer  
 Alan G. Snart  
 Henry A. Solomon  
 Leonard Vinnick

#### Research Associates

S. Sabir Ali  
 Bruce E. Belshaw  
 B. May Frantz  
 Hideo Hamaguchi

#### Fellows

Albert A. Abbey  
 Carl S. Apstein  
 Martin Barandes  
 Joseph A. Belladonna  
 William M. Bolt  
 Stefano Bombardieri  
 Michael Caruso  
 Lars Cederqvist  
 Susphachai  
 Chaithiraphan  
 James Christodoulou  
 James I. Cleeman  
 Martin Cooper  
 Dennis B. Cornfield  
 Anthony G. Coscia  
 John R. Crouse  
 Violante E. Currie  
 Robert H. Digby  
 Dennis L. DeSilvey  
 Howard B. Dickler  
 Joseph C. Dreyfus III  
 James Eisenberg  
 Charles A. Ellsworth  
 Robert L. Erickson  
 Lloyd K. Everson  
 Kenneth A. Ewing  
 Alan O. Feingold  
 John E. Feldmann  
 Ronald Fine  
 Kathleen M. Foley  
 William Freedman  
 Beverly R. Friedell  
 Ernesto J. Garcia  
 David L. Geffner  
 Stuart W. Gillim  
 David W. Gordon  
 Jeffrey R. Granett  
 Nei L. Gulco  
 John R. Hanagan  
 Mary T. Herald  
 Victor Hrehorovich  
 Keith A. Hrushka  
 Teng-Lung Hsu  
 Robert Hunt  
 Daniel C. Ihde  
 Julianne Imperato  
 Allan Jacobs  
 Eric Jaffe  
 Neil Kaplowitz  
 Seymour Katz  
 Steven Kelsen

Eduard L. Worthington  
 Stanley S. Yormak

Philip C. Holzberger  
 Donald J. Noone  
 Yoshinaga Ohtake  
 Margaret E. Todd

Jeffrey T. Kessler  
 Martin S. Klein  
 Francis H. Koch  
 Stephen A. Koff  
 Alan Kravitz  
 Robert C. Kurtz  
 Morton M. Liebowitz  
 Sonia D. Lindo  
 Philip Livingston  
 Lester Lockspieser  
 Alan Lockwood  
 Bruce Marmor  
 Ira Mason  
 John Mehanna  
 Richard D. Meyer  
 Stuart M. Miller  
 Anne Moore  
 Robert T. Mossey  
 Bijay Mukhopadhyay  
 Alice M.  
 O'Shaughnessy  
 Vellore  
 Padmanabhan  
 J. Elliott Paulson  
 Vita K. Petzold  
 Roy A. Pizzarello  
 Martin R. Post  
 Adolfo Preciado-Solis  
 Martin Raff  
 Michael E. Ray  
 Steven E. Rinner  
 John A. Rothschild  
 Michael Sanders  
 Robert A. Schaefer  
 Ronald L. Schneider  
 Martin I. Schock  
 Howard S. Schwartz  
 Philip B. Serlin  
 Patrick F. Sheehy  
 Edward A. Sickles  
 Henry St. George  
 Tucker  
 Charles Wagner  
 Robert L. Walton  
 Jack Waxman  
 Melvin Weiss  
 Kathryn A. Whelan  
 Gary N. Wilner  
 Robert Winchester  
 John Wolfe  
 Stuart W. Young

## 78 Microbiology

### Research Fellows

Mildred C. Goldberg    Jerome L. Meyer  
W. Laurence Marsh    Mamie K. Wang

### Lecturers

William G. C. Munroe    Robert L. Yeager

The program for the Department of Medicine is based on a number of premises: (1) There is a minimal core of information, skills, and understanding that must be assimilated regardless of the student's choice of career. (2) The essence of medicine is continuous and independent inquiry, which should be fostered in all students through investigative work at a laboratory or clinical level. (3) The scope and limitations of medicine are best revealed through the demands and responsibilities of patient care.

It is evident that a large number of options are open to those pursuing a career in medicine, a diversity which includes laboratory, clinical, specialty, and administrative areas. This diversity enables most students to select an area of medicine that satisfies their individual interests, abilities, and needs. There is no preconceived image of an ideal graduate except that he be competent and content in his career choice, and that he be sufficiently well prepared to adapt to the changes that will occur in the practice of medicine in the future. The program provides the student with

certain fundamental concepts and skills that will allow him thoughtfully to explore and evaluate career possibilities.

The growth and complexity of medical knowledge is proceeding at an astonishing pace. The physician who relies excessively on intuition and empiricism runs the risk of early obsolescence. A more reasonable alternative is a systematic analysis that utilizes concepts developed in the basic sciences. This approach to the interpretation of symptoms, signs, and laboratory data has been termed the pathophysiology of disease. There are unique advantages to such an approach. Existing concepts are continually evaluated so that the outmoded may be discarded. This system quickly reveals to the student the limitations of existing knowledge and exposes those facets of medicine where logic may be of little value. The depth to which each student pursues the pathophysiologic approach will vary from a study of the factors responsible for illness in a single patient to an investigation of a disorder at a fundamental level. Clearly, this spirit of inquiry is essential to all areas of medicine. The program of the Department is designed to provide the challenges and opportunities to develop this quality.

It is hoped that through his experiences, the student will blend habit with critical analysis, scientific thought with empathy, and competence with humility.

## Microbiology

William F. Scherer, Professor of Microbiology,  
Chairman

Donald W. Mackenzie, Associate Professor of  
Microbiology

William M. O'Leary, Associate Professor of  
Microbiology

Laurence B. Senterfit, Associate Professor of  
Microbiology

Robert Dickerman, Assistant Professor of  
Microbiology

Michael J. Lyons, Assistant Professor of  
Microbiology

Dieter H. Sussdorf, Assistant Professor of  
Microbiology

### Research Associate

Donald C. Powers

### Assistants

Jill M. Adler  
Khatchik Deuvletian  
Nicola Green  
Peter B. Jahrling

Laura D. Kramer  
Charles Seymour III  
William J. Suling  
Anne W. Tax

## Microbiology and an Introduction to Infectious Diseases

The course is presented in the first and second trimesters of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying microorganisms, experiments on various physical and biological manifestations of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and

an intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease.



Special attention is also given to the immunological principles underlying such non-infectious conditions as hypersensitivity, autoimmunity, and rejection of tissue transplants.

For students who wish to carry out research, a limited number of opportunities are available in laboratories of the Department of Microbiology under guidance of individual faculty. To provide time for this research, the student will be excused from presenting a seminar, and from certain laboratory sessions selected by an adviser.

## Elective Courses

**MICROBIOLOGY SEMINAR.** Scheduled bi-weekly. Topics in microbiology and infectious diseases are presented in depth by faculty and graduate students of the Department of Microbiology and by visiting scientists from other institutions.

**MICROBIAL CHEMISTRY AND PHYSIOLOGY.** Yearly during third trimester. Two lectures and two laboratory periods weekly. Lectures cover literature and methodology pertinent to physiochemical properties of microorganisms and their environments, the growth and death of microorganisms, chemical composition of cells and subcellular structures, nutritional requirements, microbiological assay and auxotrophic mutants, energy metabolism, degradations and biosyntheses, the physiology of pathogenesis, and important microbial products. Laboratory sessions provide experience with large-scale culture and recovery of cells, synthetic media, microbiological assay, extraction of cellular constituents, respirometry, and studies of substrate utilization employing radioactive metabolites. Minimum prerequisites for credit are: general microbiology, qualitative and quantitative analysis, organic chemistry, and at least one semester (or its equivalent) of biochemistry. Dr. O'Leary.

**ADVANCED IMMUNOLOGY.** Every second or third year during third trimester. Two lectures and two laboratory periods weekly. Lectures emphasize current concepts regarding antigen and antibody structure, the physical and biological manifestations of antigen-antibody reactions, and recent developments in studies on the cellular basis of immunity, including antibody formation. The laboratory will cover the isolation, purification, and quantitation of antibodies, the critical measurement of antigen-antibody reactions, histological mechanisms during the immune process, and *in-vivo* effects of specific antigen-antibody reactions. Minimum prerequisites for credit are introductory immunology (as given in courses in general microbiology) and at least one semester (or its equivalent) of biochemistry. A semester course in histology or

microscopic anatomy is desirable. Dr. Sussdorf.

**ADVANCED VIROLOGY.** Every second or third year during third trimester. In lectures and laboratory sessions, modern concepts and techniques of virology are presented. Virus structure, chemical composition, physical and biological properties, and relationships with host cells are considered in depth. Minimum prerequisites for credit are: general microbiology and at least one semester (or its equivalent) of biochemistry. Dr. Scherer.

**MICROBIAL GENETICS.** Every second or third year during third trimester. Two lectures and two laboratory sessions weekly. The lectures deal with genetic systems in fungi, bacteria, and bacterial viruses. Emphasis is placed on those basic concepts of genetics which have been elucidated by the study of microbial systems. Laboratory experiments are designed to demonstrate some of the mechanisms of genetic recombination among microorganisms. Minimum prerequisites for credit are general microbiology and at least one semester (or its equivalent) of biochemistry. A course in general genetics is desirable but not required.

**ADVANCED MYCOLOGY.** Every second or third year during third trimester. Two lectures weekly and two laboratory sessions per week for five weeks. In the lectures, initial consideration is given to gross vegetative organization of fungi, relating cellular and subcellular structure and function. In addition to physiological and morphological characteristics of microscopic fungi, mechanisms of biosynthesis and energy metabolism are described in reference to the interaction between fungi and their environment. Other topics considered include natural and induced variation of fungi, fungi as tools of genetic study, biochemical and traditional systematics, bioassays and steroid transformations. Various associations between fungi and man, including the role of fungi as sources of important microbial products, as causes of spoilage and destruction, as pathogenic and as toxigenic and allergenic agents of human disease are also considered. Laboratory exercises are designed to provide familiarity with special mycological procedures, with experience in the handling of fungi as genetic models, bioassay techniques, and special isolation and identification methods of pathogenic fungi from clinical materials. Previous experience with mycology is desirable but not essential.

**ADVANCED DIAGNOSTIC MICROBIOLOGY.** Alternate years during third trimester. Two lectures and two laboratories weekly. The lecture and laboratory sessions will acquaint the student with the procedures used and

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technique of management of a clinical microbiology laboratory. Emphasis will be upon developing the student's capability in the isolation and rapid identification of organisms from various types of clinical specimens. Liberal use will be made of clinical materials available through the diagnostic laboratories of the New York Hospital.

**CLERKSHIP IN DIAGNOSTIC MICROBIOLOGY.** Yearly. The opportunities of a clerkship in the diagnostic microbiology laboratories of the New York Hospital are available to students with an interest in this area. The student would receive training and practical experience in diagnostic microbiology as it is practiced in a large hospital laboratory.

## Arthropod-Borne Virology and Related Ecology and Epidemiology

### Sections

1. Principles of arthropod-borne virology
2. Entomology in relation to arthropod-borne virology
3. Ornithology in relation to arthropod-borne virology
4. Mammalogy in relation to arthropod-borne virology
5. Human and veterinary diseases caused by arthropod-borne viruses

Section 1 is given at Cornell University Medical College usually during late June and early July, and sections 2-5 at field laboratory sites in Mexico and Central America during late July and August. Section 1 and one or two others are offered each summer. The faculty are from Cornell and collaborating institutions in Mexico and Central America. Each section follows a syllabus and consists of literature review and analysis at libraries in the Cornell Medical College and elsewhere in New York, including the American Museum of Natural History, and seminars and practical experience at the field laboratory. Classes are limited to six. The following are eligible: at the New York City campus of Cornell University: graduate students majoring or minoring in microbiology, postdoctoral fellows in microbiology, medical students with special interest; at the Ithaca campus of Cornell University: graduate students majoring in entomology or fields of vertebrate zoology, veterinary students with special interest, undergraduate students beyond the third year

**GENERAL MICROBIOLOGY** is offered every second or third year by the personnel of the Field of Microbiology at the Medical College and the Sloan-Kettering Division. It is intended to provide a wide-ranging general knowledge of the subject for students minoring in microbiology and for nonminors who want a background in the subject. It is not primarily intended for students majoring in the subject who already have an extensive background from undergraduate work. Two-hour lectures are given weekly during both semesters. Aspects of microbiology covered include fundamental procedures, microbial growth and physiology, genetics, immunology and serology, virology, plant and animal pathogens, and applied microbiology. Auditors from all fields and divisions are welcome.

with special interest and sufficient biology background. Students at other universities or research institutions will be admitted under the same conditions as Cornell students provided spaces are available.

**FOURTH YEAR ELECTIVE OPTIONS.** A variety of activities in study, research and teaching is available to fourth-year students during their elective program of study. Included are:

Micro 101	Externship in Microbiology Dr. William F. Scherer
Micro 201	Teaching in Microbiology Dr. William F. Scherer
Micro 202	Research in Microbiology The Staff
Micro 203	Diagnostic Microbiology Dr. Laurence B. Senterfit
Micro 204	Advanced Immunology Dr. Dieter H. Sussdorf
Micro 205	Microbiology Seminar Dr. Donald W. Mackenzie
Micro 206	Microbial Chemistry and Physiology Dr. William M. O'Leary
Micro 207	Advanced Virology Drs. Michael J. Lyons and Robert W. Dickerman
Micro 208	Advanced Mycology Dr. Donald W. Mackenzie

For detailed descriptions of these options, the student is referred to the *Catalogue of Electives*.

## Honorary Fellowships in Microbiology

The Department of Microbiology offers special honorary fellowships for the study of microbiology and the principles of infectious diseases in more depth than is possible during the ordinary medical college curriculum. Dur-

ing this special year of medical education, a student can participate full time in the teaching and research activities of the Department. He can teach medical students in the microbiology course, take selected graduate

courses in this department and/or other departments, undertake research in a discipline or in microbiology under a faculty member of his choosing, obtain experience in the diagnostic microbiology laboratories of the New York Hospital, and attend microbiology seminars, infectious disease rounds, and other conferences. These activities might be termed the equivalent of an internship in microbiology, but they do not involve the service obligations that accompany clinical internships. This year under the microbiology fellowship can be listed on a curriculum *vita*, and such experience might later be useful when qualifying for various board certifications. Similar honorary fellows at other

medical schools have often become outstanding academicians in later years. A tax-exempt stipend accompanies this fellowship plus a dependency allowance. The fellowship, can start in September or July after completion of the sophomore or junior year of medical school, and research initiated during the fellowship can be continued thereafter, especially during subsequent elective periods. Through the Graduate School of Medical Sciences and by completion of a research thesis in microbiology, a minor in another department, and one language requirement, a Master of Science degree may be obtained during the period of this fellowship and the remainder of the medical curriculum.

## Neurology

Fred Plum, Anne Parrish Titzell Professor of Neurology, Chairman

Henry S. Dunning, Clinical Professor of Neurology

Fletcher H. McDowell, Professor of Neurology  
Jerome B. Posner, Professor of Neurology, Acting Chairman

Thomas H. Guthrie, Clinical Associate Professor of Neurology

Gerald H. Klingon, Clinical Associate Professor of Neurology

Henn Kutt, Associate Professor of Neurology  
John E. Lee, Clinical Associate Professor of Neurology

Paul R. McHugh, Associate Professor of Neurology

Donald J. Reis, Associate Professor of Neurology

Robert W. Brennan, Assistant Professor of Neurology

Walter A. Camp, Clinical Assistant Professor of Neurology

Richard R. Carruthers, Clinical Assistant Professor of Neurology

Sidney J. Louis, Clinical Assistant Professor of Neurology

Mitsuhiko Miura, Assistant Professor of Neurology

Hart deC. Peterson, Assistant Professor of Neurology

William R. Shapiro, Assistant Professor of Neurology

Gail Solomon, Assistant Professor of Neurology

Lewis N. Travis, Clinical Assistant Professor of Neurology

Claude G. Wasterlain, Assistant Professor of Neurology

Philip H. Zweifach, Clinical Assistant Professor of Neurology

### Instructors

Gary Birnbaum  
Nobutaka Doba  
Frank Petito

Kurt Sligar  
Richard Sweet

### Research Associates

Noe Battastini

Raif M. Yanney

### Fellows

John J. Caronna  
Raymond H. Coll  
James H. Davis  
David E. Dine  
Richard N. Edelson  
Sami Harik  
Mark S. Horwich

Barry E. Levin  
David E. Levy  
Madelyn Olson  
Richard W. Price  
Robert C. Vannucci  
Dean F. Young

The Department of Neurology has two goals in teaching students. One is to have them learn diagnosis and treatment by gaining a thorough knowledge of the specific physiology and biochemistry of the major neurological diseases. The other is to transmit some of our beginning understandings of the way the brain functions as an adaptive organ regulating both man's internal milieu and his outward behavior. A few clinical-physiological demonstrations are conducted in the first year, but formal teaching begins in the second year and continues thereafter.

## Second Year

An introductory course in neurological diagnosis is given in the third term, closely linked to the general physical diagnosis course. Lectures and seminar presentations describe the physiological basis of the neurological examination and of abnormal signs and symptoms. There are weekly bedside experiences with the students in pairs examining patients with neurological disease under an instructor's guidance.

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### Third Year

A one-month clinical clerkship is spent on the neurological pavilion of either the New York Hospital or the Memorial Hospital. Students perform the initial work-up of patients, participate in all rounds and conferences, and share in the care of patients, under the close supervision of house staff and tutors. Extensive reading is encouraged, both to develop a comfortable knowledge about major neurological problems, and to gain insight into still unsolved problems where current research is making important contributions. Daily seminars in psychiatry continue throughout the clerkship, reinforcing in the student's mind the close relationships between psychological disorders and brain dysfunction.

### Obstetrics and Gynecology

Fritz Fuchs, Given Foundation Professor of Obstetrics and Gynecology, Chairman

Thomas F. Dillon, Professor of Obstetrics and Gynecology

Ralph W. Gause, Clinical Professor of Obstetrics and Gynecology

Roy Hertz, Clinical Professor of Endocrinology in Obstetrics and Gynecology

Donald G. Johnson, Clinical Professor of Obstetrics and Gynecology

Elmer E. Kramer, Professor of Obstetrics and Gynecology

Hugh R. K. Barber, Clinical Associate Professor of Obstetrics and Gynecology

Carl G. Beling, Associate Professor of Endocrinology in Obstetrics and Gynecology

Roy W. Bonsnes, Associate Professor of Biochemistry in Obstetrics and Gynecology

Myron I. Buchman, Clinical Associate Professor of Obstetrics and Gynecology

E. William Davis, Jr., Clinical Associate Professor of Obstetrics and Gynecology

Walter L. Freedman, Clinical Associate Professor of Obstetrics and Gynecology

Hortense M. Gandy, Associate Professor of Endocrinology in Obstetrics and Gynecology

William P. Given, Clinical Associate Professor of Obstetrics and Gynecology

Graham G. Hawks, Clinical Associate Professor of Obstetrics and Gynecology

Robert Landesman, Clinical Associate Professor of Obstetrics and Gynecology

John L. Lewis, Jr., Associate Professor of Obstetrics and Gynecology

Stewart L. Marcus, Clinical Associate Professor of Obstetrics and Gynecology

Irwin R. Merkat, Associate Professor of Obstetrics and Gynecology

Melville A. Platt, Clinical Associate Professor of Obstetrics and Gynecology

### Elective Experiences

A variety of electives in either clinical work or laboratory research are available to fourth-year students. Dr. McHugh provides an advanced seminar in behavioral topics; Dr. Plum gives the same on general neurological subjects. In-patients clerkships are available for whole-time work. Dr. McDowell provides a varied out-patient elective which guarantees the student a contact with almost all the major neurological disorders. Laboratory or laboratory-clinical electives are available with almost any of the full-time faculty, all of whom are engaged in active research programs.

John T. Queenan, Clinical Associate Professor of Obstetrics and Gynecology

Richard A. Ruskin, Clinical Associate Professor of Obstetrics and Gynecology

Samuel F. Ryan, Clinical Associate Professor of Obstetrics and Gynecology

George Schaefer, Clinical Associate Professor of Obstetrics and Gynecology

Selma Silagi, Associate Professor of Genetics in Obstetrics and Gynecology

William J. Sweeney III, Clinical Associate Professor of Obstetrics and Gynecology

Howard J. Tatum, Clinical Associate Professor of Obstetrics and Gynecology

Robert E. Wieche, Clinical Associate Professor of Obstetrics and Gynecology

Stanley J. Birnbaum, Clinical Assistant Professor of Obstetrics and Gynecology

Alfred Brockunier, Clinical Assistant Professor of Obstetrics and Gynecology

John T. Cole, Clinical Assistant Professor of Obstetrics and Gynecology

Richard F. Hnat, Assistant Professor of Obstetrics and Gynecology

Leon I. Mann, Assistant Professor of Obstetrics and Gynecology

Cyril C. Marcus, Clinical Assistant Professor of Obstetrics and Gynecology

Frederick W. Martens, Clinical Assistant Professor of Obstetrics and Gynecology

Bernard Nathanson, Clinical Assistant Professor of Obstetrics and Gynecology

Gideon G. Panter, Clinical Assistant Professor of Obstetrics and Gynecology

Joseph V. Raziano, Clinical Assistant Professor of Obstetrics and Gynecology

Abraham Risk, Clinical Assistant Professor of Obstetrics and Gynecology

Frederick Silverman, Clinical Assistant Professor of Obstetrics and Gynecology

- E. Fletcher Smith, Clinical Assistant Professor of Obstetrics and Gynecology  
 E. Thomas Steadman, Clinical Assistant Professor of Obstetrics and Gynecology

**Instructors**

Jerald D. Buckley James R. Farina

**Clinical Instructors**

Naef K. Basile	Walter B. Jones
Charles H. Bippart	Robert E. Kaye
Jerome H. Brander	Robert Livingston
Lars L. Cederqvist	Robert Melnick
Vincent Du Vigneaud, Jr.	Myles C. Morrison, Jr.
John F. Dwyer	Virginia K. Pierce
Alfred J. Felice	Joseph E. Ringland
David F. James	William D. Walden
	Virginia Werden

**Research Associate**

Anna-Riitta Fuchs

**Research Fellow**

Mauro Prieto

**Fellows**

Jahangir Ayromloo	Robert S. Marcus
Paul E. Bates	Joseph D. Schulman
Richard L. Berkowitz	Normal M. Schulman
Hector M. Cabot	Frederick W.
Arthur F. Chung	Schweizer
Richard J. Derman (on leave)	G. Millard Simmons, Jr.
Michael T. Gyves	Joe Leigh Simpson
James B. Haddock	David B. Weinstein
Niels R. Lauersen	Stephen D. Wolanske
Louis J. Lissak	Frank J. Zlatnik
Richard M. Lumiere	Gizella Zoneraich

**First Year**

**INTRODUCTION TO BIOLOGY OF HUMAN REPRODUCTION.** During the last trimester, a series of eleven sessions is held for the entire first-year class as an introduction to the biology of human reproduction. The subjects include a review of reproductive physiology in the male and female, endocrinology of pregnancy, fetology, male and female infertility, family planning, and world population problems.

**Second Year**

**ORIENTATION AND INTRODUCTION TO GYNECOLOGY EXAMINATION.** During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given to groups of four students six days weekly. Four hours.

At the end of the last trimester, a ten-hour series of lectures is given on basic introduction to clinical obstetrics and gynecology. These will cover normal and pathological menstrual function and obstetrical principles and thus serve as a background for the third-year course in practical obstetrics and gynecology.

A limited number of students will be accepted by individual arrangement for summer work on research problems, especially in Reproductive Physiology.

**Third Year**

**INTRODUCTION TO PRACTICAL OBSTETRICS AND GYNECOLOGY.** Combines theoretical instruction with practical work in Obstetrics and Gynecology. Each student will study in the Lying-In Hospital for a period of seven to eight weeks. The first week will consist of daily lectures and seminars covering the physiology of the female reproductive system; the physiology and pathology of pregnancy, labor, and puerperium; and the etiology, pathology and diagnosis of diseases of the genital organs.

During the remainder of the period, the student will act as a clinical assistant in the obstetrical and gynecological departments. This includes activities in clinics and in the labor and delivery suite. The student will participate in the prenatal care of patients and attend them in labor and delivery. Small seminars are held during this time to supplement the didactic instruction. A conference is conducted each morning from 9 to 10 o'clock for those students assigned to the delivery floor.

Concomitant with this program, all students will attend the subcourses listed below.

**COURSE I. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY.** Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Mondays, 9 a.m. to 12 p.m.

**COURSE II. NEOPLASTIC DISEASES.** Instruction in and discussion of malignant neoplastic disease and its early recognition; the basic concepts of radiation therapy of malignant disease in the female generative tract. Mondays, 1:30 to 3:30 p.m.

**DEPARTMENTAL STAFF CONFERENCES AND ROUNDS.** A weekly staff conference is held on Mondays, from 4 to 5:30 p.m. Rounds on Fridays, from 11:30 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation.

**SEMINARS IN REPRODUCTIVE PHYSIOLOGY.** Periodic seminars embracing current aspects of the basic science as applied to obstetrics and gynecology are held once a month.

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### Fourth Year

A full program of fourth-year electives is offered in the department, including advanced clinical training, work in specialized areas of

obstetrics and gynecology, and a variety of opportunities to participate in on-going laboratory research. These electives are listed and described in detail in the *Catalogue of Electives*.

### Ophthalmology

Donald M. Shafer, Clinical Professor of Ophthalmology, Acting Chairman  
Edward A. Dunlap, Clinical Professor of Ophthalmology  
Dan M. Gordon, Clinical Professor of Ophthalmology

Jerry H. Jacobson, Clinical Associate Professor of Ophthalmology  
Harvey Lincoff, Clinical Associate Professor of Ophthalmology  
Walter L. Peretz, Clinical Associate Professor of Ophthalmology

Alfred Mamelok, Clinical Assistant Professor of Ophthalmology  
Alfred Nadel, Clinical Assistant Professor of Ophthalmology  
Richard Raskind, Clinical Assistant Professor of Ophthalmology  
Stuart S. Snyder, Clinical Assistant Professor of Ophthalmology  
Philip H. Zweifach, Clinical Assistant Professor of Ophthalmology

#### Instructors

Craig Mehldau                      Herbert Wassermann

#### Clinical Instructors

Thomas Cherubini                  Mark Lieberman  
Elizabeth Constantine              Irene Llovera  
Peter Laino

#### Fellows

Jerome Berkowitz                  Michael McCusker  
Paul Foraste                          Richard Muchnick  
Richard Hook                        Thomas Poole

#### Research Fellows

Neiel Baronberg                      Carol W. Hook  
Kazumasa Fujimura                   Yutaka Tsuchida

Instruction in ophthalmology begins as part of physical-diagnosis instruction in the third trimester of the second year with practical demonstrations and lectures in use of the ophthalmoscope. Emphasis is placed on technique and features of the normal fundus. Basic neuro-ophthalmology is included in this course.

During the third year the class is divided into six groups which participate in six weekly afternoons of presentation, discussion, and actual pathological case examinations. Each session concentrates on one phase of clinical ophthalmology, with the entire series rounding out the most frequent ophthalmic pathologic entities.

Two fourth-year students per module can participate in the elective period. During their modules they examine eyes of patients hospitalized for surgery and review the cases with attending ophthalmologists. Then the student observes the actual surgery and follows through with postoperative care and discussions with the resident staff. During their elective the student can also observe in the various ophthalmic research units. Each Thursday the student attends teaching rounds with the resident and attending staff presenting interesting and problem cases for detailed review and discussion.

### Otorhinolaryngology

James A. Moore, Professor of Otorhinolaryngology, Acting Chairman

James M. Holman, Clinical Associate Professor of Otorhinolaryngology  
George C. Mueller, Clinical Associate Professor of Otorhinolaryngology  
John R. Williams, Clinical Associate Professor of Otorhinolaryngology

Mary H. Markham, Clinical Assistant Professor of Otorhinolaryngology  
John H. Seward, Clinical Assistant Professor of Otorhinolaryngology

John F. Struve, Clinical Assistant Professor of Otorhinolaryngology

#### Instructor

Stephen R. Geller

#### Clinical Instructors

Frank W. Farrell                      Suzanne Howe

#### Fellows

Sheldon Cohen                        Petar Jovanovic  
Stephen R. Hiller                        W. Shain Schley

**SECOND YEAR.** Instruction begins in the third term of the second year. Four sessions of 1½ hours each are provided in otorhinolaryngologic problems, as part of the course in physical diagnosis. There are approximately twenty students in each of these four instructional periods.

**THIRD YEAR.** Each quarter of the third-year class spends from seven to eight weeks in the otorhinolaryngology outpatient clinic. These sessions are held on Monday afternoons from 1:00 p.m. to 4:00 p.m. In the outpatient clinic, the students gain a broad experience with patients who are considered for surgical therapy. The students work up the patients, taking full histories and physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending otorhinolaryngologist. The differential diagnosis, diagnostic procedures, and therapy are discussed. Each patient is seen on return visits by the same student, in order that the results of the diagnostic procedure and clinical course may be observed firsthand and definitive therapy decided upon in consultation with an otorhinolaryngology staff member.

Informal lectures are given at the beginning of the 3-hour afternoon sessions. To supplement these informal lectures, interesting cases are selected and presented to the group for examination and informal discussion. Every attempt is made to use not only clinic patients, but inpatients as well, for these case presentations.

**FOURTH YEAR.** Clinical clerkships in otorhinolaryngology are offered to students in the fourth year in modules of eight weeks or sixteen weeks. Full-time attendance is desirable; however, half-time attendance may be arranged at the discretion of the department head. During the clerkship the student's time is divided between duty on the ward, in the otorhinolaryngology outpatient clinic, and in the operating room. The student takes part in the ward duties and makes ward rounds with the resident staff. The student also has the opportunity to observe various otorhinolaryngologic operating procedures in the operating room. He also attends the weekly and monthly conferences. The advisers to students planning this fourth-year elective are Dr. James A. Moore and Dr. James M. Holman.

## Pathology

John T. Ellis, Professor of Pathology, Chairman

Milton Helpern, Visiting Professor of Pathology

Aaron Kellner, Clinical Professor of Pathology

John G. Kidd, Professor of Pathology

Elmer E. Kramer, Clinical Professor of Pathology

Robert C. Mellors, Professor of Pathology

George E. Murphy, Professor of Pathology

Carl G. Becker, Associate Professor of Pathology

M. Renate Dische, Clinical Associate Professor of Pathology

Stanley Gross, Clinical Associate Professor of Pathology

Robert W. McDivitt, Associate Professor of Pathology

C. Richard Minick, Associate Professor of Pathology

Alfred M. Prince, Clinical Associate Professor of Pathology

Charles A. Santos-Buch, Associate Professor of Pathology

John F. Seybolt, Clinical Associate Professor of Pathology

Cyril Solomon, Clinical Associate Professor of Pathology

Peter G. Bullough, Assistant Professor of Pathology

Arthur S. Carlson, Clinical Assistant Professor of Pathology

Margaret H. S. Clements, Assistant Professor of Pathology

Ludwig W. Geib, Assistant Professor of Pathology (Comparative Pathology)

George F. Gray, Assistant Professor of Pathology

Robert S. Porro, Assistant Professor of Pathology

Theodore Robertson, Clinical Assistant Professor of Pathology

Myron Susin, Assistant Professor of Pathology

Carolyn W. Watson, Clinical Assistant Professor of Pathology

### Instructors

Daniel R. Alonso

Joseph A. Mirra

Janet A. Mouradian

Jack F. Woodruff

### Fellows

Bonita L. Bachl

Edilson G. Brito

Charles E. Connolly

Bruce C. Horten

Carol K. Petito

Robert F. Reiss

LeRoy Riddick, Jr.

Francisco Roters

Zulema Sabatini

Leroy R. Sharer, Jr.

Toshikazu Shirai

Chik-kwun Tang

Carl F. W. Wolf

### Visiting Fellow

Andrew H. Littell

### Assistant

Charlotte Street

## General Pathology

**FACILITIES.** The Department of Pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, a very considerable amount of constantly changing gross material is available for study by the student.

The postmortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and, in recent years, protocols and microscopic slides have been carefully indexed and filed.

**INSTRUCTION.** Instruction is given in the first and second terms of the second year.

Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair; it then proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systematic pathology including an introduction to neuropathology.

**GENERAL AND SPECIAL PATHOLOGY.** Required in the first and second terms of the second year. Professor Ellis and staff. Hours, 264.

**NEUROPATHOLOGY.** The pathology of the nervous system is studied, and altered structure and function are correlated. Hours, thirty-three.

**CLINICAL PATHOLOGICAL CONFERENCES.** These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

**ELECTIVE COURSES.** A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

## Pediatrics

Wallace W. McCrory, Professor of Pediatrics,  
Chairman

Peter A. McF. Auld, Professor of Pediatrics

Mary Allen Engle, Professor of Pediatrics

Milton I. Levine, Clinical Professor of Pediatrics

M. Lois Murphy, Professor of Pediatrics

Myron Winick, Professor of Pediatrics

Fred H. Allen, Jr., Clinical Associate Professor of Pediatrics

Charles H. Bauer, Clinical Associate Professor of Pediatrics

Samuel R. Berenberg, Clinical Associate Professor of Pediatrics

Kathryn H. Ehlers, Associate Professor of Pediatrics

Nathan Epstein, Clinical Associate Professor of Pediatrics

John E. Franklin, Clinical Associate Professor of Pediatrics

James L. German III, Clinical Associate Professor of Human Genetics (Pediatrics)

Martin J. Glynn, Clinical Associate Professor of Pediatrics

Henry P. Goldberg, Clinical Associate Professor of Pediatrics

Margaret T. Grossi, Clinical Associate Professor of Pediatrics

Herman Grossman, Associate Professor of Radiology (Pediatrics)

James Q. Haralambie, Clinical Associate Professor of Pediatrics

Edmund N. Joyner III, Clinical Associate Professor of Pediatrics

Aaron R. Levin, Associate Professor of Pediatrics

Wan Ngo Lim, Associate Professor of Pediatrics

Florence N. Marshall, Clinical Associate Professor of Pediatrics

Robert G. McGovern, Clinical Associate Professor of Pediatrics

Denis R. Miller, Associate Professor of Pediatrics



Virginia C. Mitty, Clinical Associate Professor of Pediatrics  
 Bertrand L. New, Clinical Associate Professor of Psychiatry (Pediatrics)  
 Maria I. New, Associate Professor of Pediatrics  
 S. Frank Redo, Clinical Associate Professor of Surgery (Pediatrics)  
 John C. Ribble, Associate Professor of Pediatrics  
 Lee Salk, Clinical Associate Professor of Psychology (Pediatrics)  
 Maxwell Stillerman, Clinical Associate Professor of Pediatrics  
 Charlotte T. C. Tan, Associate Professor of Pediatrics  
  
 Barbara S. Ashe, Assistant Professor of Pediatrics  
 Richard R. Bass, Clinical Assistant Professor of Pediatrics  
 Otto E. Billo, Clinical Assistant Professor of Pediatrics  
 Jo Anne Brasel, Assistant Professor of Pediatrics  
 Mary C. Buchanan, Clinical Assistant Professor of Pediatrics  
 Virginia C. Canale, Assistant Professor of Pediatrics  
 Walter T. Carpenter, Clinical Assistant Professor of Pediatrics  
 Benedict S. Caterinicchio, Clinical Assistant Professor of Pediatrics  
 Leon I. Charash, Clinical Assistant Professor of Pediatrics  
 Alan P. DeMayo, Clinical Assistant Professor of Pediatrics  
 Duane L. Dowell, Clinical Assistant Professor of Pediatrics  
 G. Gail Gardner, Assistant Professor of Psychology (Pediatrics)  
 Doris K. Goldberg, Clinical Assistant Professor of Pediatrics  
 Mahroo Haghighi, Assistant Professor of Pediatrics  
 Margaret C. Heagarty, Assistant Professor of Pediatrics  
 Lawrence Helson, Assistant Professor of Pediatrics  
 Margaret W. Hilgartner, Assistant Professor of Pediatrics  
 Margaret M. Kugler, Clinical Assistant Professor of Pediatrics  
 John E. Lewy, Assistant Professor of Pediatrics  
 Luther B. Lowe, Jr., Clinical Assistant Professor of Pediatrics (Dermatology)  
 Marion McIlveen, Clinical Assistant Professor of Pediatrics  
 Karl Neumann, Clinical Assistant Professor of Pediatrics  
 Rebecca F. Notterman, Clinical Assistant Professor of Pediatrics  
 Hart deC. Peterson, Assistant Professor of Neurology (Pediatrics)

Olive E. Pitkin, Clinical Assistant Professor of Pediatrics  
 Virginia E. Pomeranz, Clinical Assistant Professor of Pediatrics  
 Alfred L. Scherzer, Assistant Professor of Pediatrics  
 Edward T. Schubert, Assistant Professor of Biochemistry (Pediatrics)  
 William T. Seed, Clinical Assistant Professor of Pediatrics  
 Michael A. Selzer, Clinical Assistant Professor of Psychiatry (Pediatrics)  
 Madoka Shibuya, Assistant Professor of Pediatrics  
 David I. Smith, Clinical Assistant Professor of Pediatrics  
 Martha L. Smith, Clinical Assistant Professor of Pediatrics  
 Norma W. Sternberg, Assistant Professor of Pediatrics  
 Peter S. Tolins, Clinical Assistant Professor of Pediatrics  
 Stanley S. Zipser, Clinical Assistant Professor of Pediatrics

#### **Instructors**

Enid Felzen, Instructor in Psychology (Pediatrics)  
 Zulema F. Fischbarg  
 Peter G. Steinherz  
 Israel I. Rayman

#### **Clinical Instructors**

Sharon F. Berkowitz	Roy H. Lieberman
Marvin Boris	Frank N. Medici
Renee M. Brilliant	Irwin Rappaport
Joseph H. DiLeo	Reuben H. Reiman
Philip W. H. Eskes	Melvin S. Rosh
Gilbert L. Fuld	Jean-Jacques Saranga
Diane B. Gareen	Beatrice S. Slater
Theodore M. Ginsberg	Gail E. Solomon
Alberto Lacoious-Petrucelli	Josef Soloway

#### **Research Associate**

Belle Granich

#### **Fellows**

Beverly J. Barrett	Stephanie Landey
Richard M. Bauer	Wen-hsiung Lu
David Billings	Ruby Malva
Jeffrey L. Brown	Lillian C. McMahon
Rosalind A. Coleman	Gary A. Parks
William T. Dahms	Birgitta Peterson
Robert H. Dorsett	Vadlakonda S. Rao
Maria DuFau	Harold L. Rosenbaum
Mira Frand	Pietro R. Rosso
Lawrence D. Frenkel	Dale G. Sickles
Andrea C. V. Giardina	Mary W. Tsai
Patricia-Jane V. Giardina	Tsueno Tsuruhara
Carol L. Kamm	Russell U. Weed
Matthew R. Kaplan	Michael R. Wollman
	Winston C. Wong

#### **Clinical Fellow**

Gilda Morillo-Cucci

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### Lecturer

Virginia Apgar (Teratology)

**THIRD YEAR.** Thirty-five lectures throughout the school year present the subject of normal growth and development in infants and children, principles of genetics and nutrition, problems of the newborn infant, and disease in the pediatric age group. Students serve as clinical clerks on the pediatric pavilions, nurseries, and pediatric outpatient department of The New York Hospital. They are assigned to examine newly admitted patients in rotation and gain experience in diagnosis and management of sick children who require hospital residence, as well as children followed in the various outpatient clinics. Night and weekend rotations are scheduled on the

pediatric and emergency pavilions. Special rounds and seminar are arranged for the clinical clerks; they also attend regular departmental conferences and rounds.

**FOURTH YEAR.** The students' activities are entirely elective. The Department offers a variety of clinical pediatrics electives encompassing general and subspecialty clinic outpatient activities at The New York Hospital; and combined inpatient and outpatient activities at The New York Hospital, Hospital for Special Surgery, and Memorial Hospital. Other electives are offered by subspecialty department heads in programs with either clinical, research, or combined clinical and research emphasis.

## Pharmacology

Walter F. Riker, Jr., Professor of Pharmacology, Chairman

John J. Burns, Visiting Professor of Pharmacology

Walter Modell, Professor of Pharmacology

Amir Askari, Associate Professor of Pharmacology

Walter Y. Chan, Associate Professor of Pharmacology

Raymond W. Houde, Associate Professor of Pharmacology

Alan Van Poznak, Clinical Associate Professor of Pharmacology

Arthur H. Hayes, Jr., Assistant Professor of Pharmacology

Charles E. Inturrisi, Assistant Professor of Pharmacology

Roberto Levi, Assistant Professor of Pharmacology

Michiko Okamoto, Assistant Professor of Pharmacology

### Research Associates

Thomas Baker

Srinivas Rao

### Research Fellows

Johnson O. Kuye

Barry James Roger

Herbert Longenecker

Pitts

Carlos Widmer

**SECOND YEAR.** Lectures, demonstrations, and conferences are given during the first and second terms of the second year; clinical demonstrations involving both in- and outpatients are scheduled in the second term. These exercises constitute the basic course in pharmacology. The major purpose is to teach the concept and the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental

concepts essential for the evaluation of any drug. Consequently, emphasis is placed on the scientific basis of pharmacology. Prototype drugs, considered essentially systematically, serve to illustrate several mechanisms and parameters of drug action. Hours, 154.

## Elective Courses

Elective opportunities will be made available to students during free time. In these courses the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced during the basic course, or to clarify through research, some particular aspect of drug action. These activities will be supervised closely by staff members and oriented as a graduate experience. The medical course in pharmacology is a preferred prerequisite.

## Fourth Year

**SEMINAR.** Pharmacologic Bases of Therapy. A series of one-hour seminars are offered twice weekly. In these seminars drug treatment used in a specific case furnishes the focus for the development of a pharmacologic discussion. Emphasis is on a reexamination of the pharmacologic rationale for a particular therapy. Also students are directed in searching out essential information on newly introduced medicinals. Members of clinical departments are invited to participate.

This course is offered during each module but will be given only if there are at least six students registered.

**CLINICAL PHARMACOLOGY.** Electives offer the student an opportunity to become acquainted with problems of experimental

design and conduct of controlled clinical drug trials. Present departmental programs in the clinic are concerned with (a) the assay and evaluation of analgesic drugs, and (b) the study of cardio-vascular drugs, especially antiarrhythmic agents. Recommended time: one to two modules, half time.

**MEDICAL EDITING.** An experience is offered for one to three students to join the activities of the editorial office of *Clinical Pharmacology and Therapeutics*, an official publication of the American Society for Pharmacology and Experimental Therapeutics. Students will participate in all aspects of the handling of manuscripts from their receipt to final disposition, including selection of referees, exchanges between reviewer and the editor,

exchanges between the editor and author regarding suggestions for modifications made by referees, and the final editing processes involved in readying the manuscript for publication. Recommended time: two modules, part-time.

**RESEARCH.** Arrangements will be made for individuals or groups to participate in original investigations with a view to learning the methods of pharmacological research. For detailed description of opportunities consult the *Catalogue of Electives*. In brief, special opportunities are offered for work on the pharmacology of synaptic transmission, the cardiovascular system, and the biochemical aspects of pharmacology. Recommended time: to be arranged.

## Physiology and Biophysics

Robert F. Pitts, Maxwell M. Upson Professor of Physiology and Biophysics, Chairman  
Roger L. Greif, Professor of Physiology  
Erich E. Windhager, Professor of Physiology

Sulamita Balagura-Baruch, Associate Professor of Physiology  
Bernice Grafstein, Associate Professor of Physiology  
Harold G. Hempling, Associate Professor of Physiology

Colin Fell, Assistant Professor of Physiology  
Thomas Maack, Assistant Professor of Physiology  
Daniel J. O'Donovan, Visiting Assistant Professor of Physiology  
Lou Ann Pilkington, Assistant Professor of Physiology

### Research Fellow

Jack Keyes

### Instructor

Tze Kong Young

### Assistant

Nicholas Ingolia

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an understanding of the principles involved in the functioning of the human body and of the means by

which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having on the fourth floor of its building the Graham Lusk Library of Physiology, a gift from the late Professor of Physiology Graham Lusk. The library includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective field of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and The New York Hospital.

**SECOND TERM.** Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. Hours, 44.

**THIRD TERM.** Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endo-

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crinology, body fluids, and kidney. Laboratory exercises two full days each week. Hours, 187.

A course in radiobiology is sponsored by the Department of Physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. Eleven hours of lectures.

**ELECTIVE COURSES.** A seminar course in topics in biophysics and one in fluid and electrolyte balance are offered to selected students during their second-year elective

time. An opportunity is offered to not more than five students during their second-year elective period to participate as laboratory instructors in physiology. Research work for medical students during second- and four-year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

### Courses Open to Special Students

1. **PHYSIOLOGY.** Fee, \$100 for each term.
2. **PHYSIOLOGICAL RESEARCH.** Subject to special arrangement with head of the Department.

## Psychiatry

William T. Lhamon, Barklie McKee Henry  
Professor of Psychiatry, Chairman

Eric T. Carlson, Clinical Professor of Psychiatry

Sanford Goldstone, Professor of Psychology in Psychiatry

Francis J. Hamilton, Clinical Professor of Psychiatry

James F. Masterson, Jr., Clinical Professor of Psychiatry

William N. Schoenfeld, Clinical Professor of Psychology in Psychiatry

Richard M. Silberstein, Clinical Professor of Psychiatry

Otto A. Will, Jr., Clinical Professor of Psychiatry

Sheldon Blackman, Clinical Associate Professor of Psychology in Psychiatry

James L. Curtis, Associate Professor of Psychiatry

Helen E. Daniells, Clinical Associate Professor of Psychiatry

Bernard Fisher, Clinical Associate Professor of Psychology in Psychiatry

Frederic F. Flach, Clinical Associate Professor of Psychiatry

Richard J. Glavin, Clinical Associate Professor of Psychiatry

Lawrence J. Hattler, Clinical Associate Professor of Psychiatry

Lawrence E. Hinkle, Jr., Associate Professor of Medicine in Psychiatry

Ari Kiev, Clinical Associate Professor of Psychiatry (Social Psychiatry)

Seymour G. Klebanoff, Clinical Associate Professor of Psychology in Psychiatry

Richard N. Kohl, Associate Professor of Psychiatry

Ludwig G. Laufer, Clinical Associate Professor of Psychiatry

Abraham S. Lenzer, Clinical Associate Professor of Psychiatry

Alfred B. Lewis, Jr., Clinical Associate Professor of Psychiatry

Edward Y. Liang, Clinical Associate Professor of Psychiatry

Paul R. McHugh, Associate Professor of Psychiatry

Alan A. McLean, Clinical Associate Professor of Psychiatry

Thomas H. Meikle, Jr., Associate Professor of Neuroanatomy in Psychiatry

Bertrand L. New, Clinical Associate Professor of Psychiatry

Leon L. Rackow, Clinical Associate Professor of Psychiatry

Donald J. Reis, Associate Professor of Neurology in Psychiatry

Arthur K. Shapiro, Clinical Associate Professor of Psychiatry

Gerard P. Smith, Associate Professor of Psychiatry (Physiology)

Peter E. Stokes, Associate Professor of Medicine in Psychiatry

Nathaniel Warner, Clinical Associate Professor of Psychiatry

Elliott L. Weitzman, Clinical Associate Professor of Psychiatry

Edward T. Adelson, Clinical Assistant Professor of Psychiatry

Arthur A. Anderson, Jr., Clinical Assistant Professor of Psychiatry

Gerald A. Anderson, Clinical Assistant Professor of Psychiatry

Joseph Arcuri, Clinical Assistant Professor of Psychiatry

Jason Aronson, Clinical Assistant Professor of Psychiatry

Harvey H. Barten, Clinical Assistant Professor of Psychiatry

James E. Baxter, Clinical Assistant Professor of Psychiatry

Thomas Beckett, Clinical Assistant Professor of Psychology in Psychiatry

- William R. Breakey, Visiting Assistant Professor of Psychiatry
- Albert N. Browne-Mayers, Clinical Assistant Professor of Psychiatry
- Edwin H. Church, Clinical Assistant Professor of Psychiatry
- M. David Clayton, Assistant Professor of Psychology in Psychiatry
- E. Gerald Dabbs, Clinical Assistant Professor of Psychiatry
- John D. Dalach, Clinical Assistant Professor of Psychology in Psychiatry
- Lawrence A. Downs, Clinical Assistant Professor of Psychiatry
- Maria Freile Fleetwood, Clinical Assistant Professor of Psychiatry
- Gerard Fountain, Clinical Assistant Professor of Psychiatry
- Nicholas Freyberg, Clinical Assistant Professor of Psychology in Psychiatry
- Lionel O. Friedman, Clinical Assistant Professor of Psychiatry
- Stephen Goodyear, Clinical Assistant Professor of Psychiatry
- Nelson M. Gray, Clinical Assistant Professor of Psychiatry
- Thomas S. Harper, Clinical Assistant Professor of Psychiatry
- Irving B. Harrison, Clinical Assistant Professor of Psychiatry
- Royal J. Haskell, Jr., Clinical Assistant Professor of Psychology in Psychiatry
- Thomas F. Henley, Clinical Assistant Professor of Psychiatry
- Philip S. Herbert, Clinical Assistant Professor of Psychiatry
- Peter T. Janulis, Clinical Assistant Professor of Psychiatry
- Francis D. Kane, Clinical Assistant Professor of Psychiatry
- Marilyn G. Karmason, Clinical Assistant Professor of Psychiatry
- Avraam T. Kazan, Clinical Assistant Professor of Psychiatry
- M. Dorothea Kerr, Clinical Assistant Professor of Psychiatry
- Jeremy M. Kisch, Assistant Professor of Psychology in Psychiatry
- Robert G. Knight, Clinical Assistant Professor of Psychiatry
- Jerome L. Kroll, Assistant Professor of Psychiatry
- Bernard Landis, Clinical Assistant Professor of Psychology in Psychiatry
- Allison B. Landolt, Clinical Assistant Professor of Psychiatry
- Robert E. Lee, Clinical Assistant Professor of Medicine in Psychiatry
- Laurence Loeb, Clinical Assistant Professor of Psychiatry
- William A. Longaker, Clinical Assistant Professor of Psychiatry
- Armand Loranger, Assistant Professor of Psychology in Psychiatry
- William V. Lulow, Clinical Assistant Professor of Psychiatry
- Richard B. Makover, Clinical Assistant Professor of Psychiatry
- Rene C. Mastrovito, Clinical Assistant Professor of Psychiatry
- Lillian E. McGowan, Clinical Assistant Professor of Psychiatry
- John F. McGrath, Clinical Assistant Professor of Psychiatry
- William K. McKnight, Assistant Professor of Psychiatry
- Stanley T. Michael, Assistant Professor of Psychiatry
- Lawrence C. Miller, Clinical Assistant Professor of Psychiatry
- Harry H. Moorhead, Clinical Assistant Professor of Psychiatry
- Timothy B. Moritz, Clinical Assistant Professor of Psychiatry
- Anna J. Munster, Clinical Assistant Professor of Psychiatry
- Werner Nathan, Clinical Assistant Professor of Psychiatry
- Jane F. O'Neil, Assistant Professor of Psychiatry
- Robert S. Ort, Assistant Professor of Psychiatry
- Edward L. Pinney, Jr., Clinical Assistant Professor of Psychiatry
- Jacques M. Quen, Clinical Assistant Professor of Psychiatry
- Richard Rabkin, Clinical Assistant Professor of Psychiatry
- Edwin R. Ranzenhofer, Clinical Assistant Professor of Psychiatry
- Philip S. Robbins, Clinical Assistant Professor of Psychiatry
- Fred V. Rockwell, Clinical Assistant Professor of Psychiatry
- Richard Rutkin, Assistant Professor of Psychology in Psychiatry
- Richard M. Sallick, Assistant Professor of Psychiatry
- Sirgay Sanger, Clinical Assistant Professor of Psychiatry
- Marie-Louise Schoelly, Clinical Assistant Professor of Psychiatry
- Jean E. Schultz, Clinical Assistant Professor of Psychiatry
- Jeri A. Sechzer, Assistant Professor of Psychology in Psychiatry
- Edward E. Seelye, Assistant Professor of Psychiatry
- Michael A. Selzer, Clinical Assistant Professor of Psychiatry
- Helen N. Siegrist, Assistant Professor of Social Work in Psychiatry
- Robert M. Simon, Clinical Assistant Professor of Psychiatry
- Nora Smith, Clinical Assistant Professor of Psychiatry
- James H. Spencer, Jr., Clinical Assistant Professor of Psychiatry
- Tom G. Stauffer, Clinical Assistant Professor of Psychiatry
- Leonard R. Straub, Clinical Assistant Professor of Psychiatry

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Joseph D. Sullivan, Clinical Assistant Professor of Psychiatry  
 Lester M. Tourk, Assistant Professor of Psychology in Psychiatry  
 Morton L. Wadsworth, Clinical Assistant Professor of Psychiatry  
 Porter H. Warren, Assistant Professor of Psychiatry  
 Henriette L. Wayne, Clinical Assistant Professor of Psychiatry  
 William D. Wheat, Clinical Assistant Professor of Psychiatry  
 Peter G. Wilson, Assistant Professor of Psychiatry  
 Alvin R. Yapalater, Clinical Assistant Professor of Psychiatry  
 Louis C. Zang, Assistant Professor of Psychiatry

### Instructors

William N. Davis                      Agop Tashchian  
 Charles A. Shamoian

### Clinical Instructors

E. Joanne Angelo                      Henry J. Lefkowitz  
 Ralph D. Baker                      Edna A. Lerner  
 Richard N. Besley                      Arnold S. Maerov  
 Marvin B. Blitz                          Harvey I. Mandel  
 David E. Brown                        Sarah M. Mitchell  
 James W. Brown                        Wayne A. Myers  
 Arthur S. Campbell                      Jesus Nahmias  
 Robert S. Carson                        Daniel J. O'Connell  
 James J. Cavanagh                      Louis J. Padula  
 Remo R. Cerulli                        Salvatore J. Pagliaro  
 Cornelius J. Clark                        Esra S. Petursson  
 Howard N. Cooper                        Robert B. Poundstone  
 Paul H. Davis                            Martha K. Reese  
 Lois B. de Alvarado                      David B. Robbins  
 John R. Delaney                        Herbert L. Rothman  
 Ruth F. Deutch                        Arnold B. Rudominer  
 Mary V. DiGangi                        George Samios  
 Thomas L. Doyle, Jr.                      Herman R. Schechter  
 Suzanne C. Draghi                        Jack G. Schoenholtz  
 Samuel V. Dunkell                        George F. Simor  
 Stuart R. Edelson                        Max Spital  
 Simon J. Epstein                        Michael S. Stockheim  
 G. Renee Ferguson                        C. Neil Taylor  
 Theodore H. Finkle                        Sylvia G. Traube  
 Roland J. Foraste                        Martha C. Troutman  
 Mio Fredland                            Kenneth F. Tucker  
 Richard B. Gould                        Traer Van Allen  
 Daniel N. Hertz                        James R. Ware  
 David M. Hurst                        Louis Weinstein  
 Raymond F. Jarris                        Alden E. Whitney  
 Hae A. Kim                              Anna Zagoloff  
 Mary M. Knight

### Research Associates

James M. Campbell                      Thomas A. Loftus  
 A. Dale Console                        Elaine Shapiro  
 Norman Dain

### Research Fellows

Hannah S. Decker                      Milton Seegmiller  
 Milton D. Hassol

### Fellows

Kathleen A. Barzun                      Avodah K. Offit  
 Joseph Campanella                      Thomas M. O'Rourke  
 Edward S. Casper                      Anthony A. Pelosi  
 Socrates                                  Felix O. Pitterson  
     Constantinou                      Ronald Ralbag  
 Colin B. Cook                            Alberto L. Restrepo  
 Jan Cooper                                Dominick Riccio  
 William Elstein                            Nan Robert  
 Robert W. Frick                            Lathrop E. Roberts  
 James G. Gibbs, Jr.                        Richard M. Sellwood  
 Douglas M. Grodin                        III  
 Thomas L. Henley                        Carole L. Selvey  
 Rise A. Jacobson                        Edward C. Sheppard  
 Betty Karron                              Elliot R. Singer  
 Lenard J. Lexier                            Lisa Tallal  
 Patrick C. Lorenz                            E. Anne Turner  
 Richard E. Luria                            Nancy S. Tessler  
 Elisabeth L. Macrae                        Donald B. Vogel  
 Marlin R. Mattson                        Hermann Von Greiff

### Assistants

Elizabeth K. Balliett                      Meribeth Simpson  
 Myrtle Guy

The Department of Psychiatry offers instruction and electives during each of the four years. Understanding of the development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student to psychiatric disorders and the methods of their examination and study. In the third year this preliminary training is utilized in the study of both in- and outpatients of the Payne Whitney Psychiatric Clinic. In addition, field trips are offered to a community mental health center, a drug addiction center, a state hospital, and the Westchester Division of The New York Hospital. In the fourth year numerous electives are offered. The importance of personality problems in general medicine is taught in the pavilions of The New York Hospital.

**FIRST YEAR: MEDICAL ASPECTS OF HUMAN BEHAVIOR.** Students are presented with selected topics from the various behavioral science fields considered to be relevant to psychiatry. Synthesis and interrelations of theoretical and experimental findings in behavioral studies are provided. Clinical relevance to psychopathology will be noted, as well as current medically useful methods of examining behavior. Total hours, twenty-two.

**SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION.** The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. The course offers practical experience in interviewing, history taking, and in the methods of psychiatric examination. Total hours, thirty-three.

**THIRD YEAR: CLINICAL PSYCHIATRY.** Groups of seven to eight students rotate through the in- and outpatient services of the Payne Whitney Psychiatric Clinic four days a week for four-week periods. One day per week is devoted to a field trip to other psychiatric facilities. Students examine and work up inpatients and, in addition, have the opportunity to examine outpatients. The program includes a series of lectures, seminars, case

presentations, and four afternoons in the Division of Child Psychiatry.

**FOURTH YEAR: ELECTIVES.** During the fourth year the following electives are offered: A clinical clerkship in the psychiatric inpatient department, clinical experience in the psychiatric outpatient department, research in child psychiatry, social psychiatry, metabolic psychiatry, the history of psychiatry, psychochemotherapy, and audiovisual teaching.

## Public Health

Walsh McDermott, Livingston Farrand Professor of Public Health, Chairman

William T. Ingram, Visiting Professor of Engineering in Public Health

Kenneth G. Johnson, Professor of Public Health in Community Medicine

Philip D. Marsden, Visiting Professor of Public Health

Eugene G. McCarthy, Jr., Clinical Associate Professor of Public Health

David Schottenfeld, Associate Professor of Public Health

Michael Alderman, Assistant Professor of Community Medicine in Public Health

Aaron D. Chaves, Clinical Assistant Professor of Public Health

Lewis Drusin, Assistant Professor of Epidemiology in Public Health

August H. Groeschel, Assistant Professor of Public Health

Thomas A. Hodgson, Jr., Assistant Professor of Economics in Public Health

John P. Maher, Clinical Assistant Professor of Public Health

Robert M. McCune, Assistant Professor of Public Health

Katsuhiko Yano, Assistant Professor of Public Health

### Clinical Instructors

Glady's L. Hobby      William H. Loery

### Research Associates

Jeanne F. Magagna      Lucille Wright  
Julia T. Weld

### Visiting Lecturer

John C. Seed

The teaching aim of the Department of Public Health is to help increase the student's understanding of disease and its proper control in people considered as groups or communities. This is the scientific and professional base for the different way of looking at things of the nonclinical, "public," or "community" physician who utilizes the

same total pool of biomedical science and technology used by the clinical physician, but who extracts from it quite different elements for application to the disease problems of a whole community. The existence and potentialities of this "other way" of using biomedical science and technology for the control of disease and the promotion of health must be known and comprehended by all physicians. For all patients are under these two medical influences at once—that of the clinical or personal physician and that of the nonclinical or public physician. To a considerable extent the teaching of this community aspect of medicine involves identification of the existing and emerging disease problems and the ways they are shaped by the multiple interreactions of heredity, culture, and the physical and biologic environments. The character of the specific disease problems may change appreciably from one decade to another. Consequently, the major effort in the teaching is to help the student apply the knowledge derived from the basic medical sciences to the problems of the day and to the possible ways these problems can be modified or solved through either the clinical or the nonclinical systems for health care.

The courses start at the beginning of the first year and are continued through the second, third, and fourth years.

**FIRST YEAR: POPULATION DYNAMICS: DEMOGRAPHY, CULTURE, AND DISEASE.** Population Dynamics is the first course in the study of public health. It consists of ten one-hour weekly exercises conducted by one of the senior professors during the last trimester. The biomedical, cultural, ethical, and socioeconomic aspects of population dynamics; the problems presented by population growth and their possible solutions form the basis for the presentations.

**SECOND YEAR: INTRODUCTION TO THE COMPUTER, EPIDEMIOLOGY, AND COMMUNITY MEDICINE.** An introduction to the study of disease and its determinants in a community. During the first part of the course,

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special emphasis is placed on the design of epidemiologic studies, testing the significance of observed results by appropriate statistical means. Throughout the first trimester, each Tuesday afternoon, a lecture is given from 2-3 p.m. on the use of the computer in medicine. Assignments to write a computer program are made and the student has an opportunity to run his program on a computer.

On Thursday afternoons from 3-5 p.m. throughout the trimester, seminars with assigned reading are conducted on the design of epidemiologic studies and the commonly employed means of statistical testing.

In the third trimester, a series of lectures, given each Wednesday morning, from 9-10 a.m. are devoted to an examination of systems of medical care. Total hours, forty-four.

**SECOND YEAR: PARASITOLOGY.** The principal emphasis in this course is on diseases caused by the larger parasites, which are particularly prevalent in so-called economically underdeveloped areas, and the course is given by Dr. B. H. Kean and his associates during the second trimester of the school year.

Dr. Kean is head of the tropical disease unit in the Department of Medicine and has had extensive field experience in the tropics. He is assisted by Dr. Philip Marsden, Visiting Professor in the Department of Public Health. The course starts with the study of the host-parasite reaction as it is considered in microbiology and pathology and broadens it to include macroscopic parasites as well. Thus, although the initial and major emphasis of the course is on microscopy, it also serves to introduce the student to the main avenues for the study of diseases in man—clinical medicine and epidemiology. The important larger parasites of man are considered; the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Monday, Wednesday, and Friday afternoon during the latter part of the second

trimester, a lecture or demonstration is presented from 2-3 p.m. and the laboratory exercises are then carried on from 3-5 p.m. Total hours, thirty-three.

**THIRD YEAR.** The course in public health consists of morning field trips followed by afternoon seminars. The exercises are devoted to consideration of general questions of clear medical import which may be expected to represent major problems related to communities, to the student's future patients considered as individuals, and to himself. The teaching is all conducted with groups of seven to fourteen students who meet weekly for a total of eight weeks.

**FOURTH YEAR.** The teaching program is centered in the electives listed below.

## Elective Courses

**EXERCISES IN PUBLIC HEALTH.** Research opportunities are available to students who are interested in studying the social, economic, and other environmental determinants of disease in a community. A student can participate in on-going studies relating to the system of medical care in a community, or he may choose to initiate a short-term independent project. Previous student projects have included studies in infant mortality, anemia in early childhood, the effects of diet on supplementation in malnourished children, and a study of "drop-outs" from a maternity services clinic. Opportunities are provided for selected students to participate in extra-mural projects in the United States and abroad. Dr. Kenneth Johnson is the sponsor of these exercises.

**BEDFORD HEALTH CENTER CLERKSHIP.** The student during the course of this elective will gain experience in the operation of a large health center situated in Bedford-Stuyvesant. He will assist the health officer in his daily work by participating directly in the Center's activities. These activities will be defined by the health officer as far as possible to conform to the particular interests of the student. Dr. Kenneth Johnson and Dr. John Maher are cosponsors of this Clerkship.

## Radiology

John A. Evans, Professor of Radiology, Chairman

Giulio D'Angio, Professor of Radiology

D. Gordon Potts, Professor of Radiology

Harold L. Temple, Clinical Professor of Radiology

David V. Becker, Associate Professor of Radiology

David G. Bragg, Associate Professor of Radiology

Florence Chien Hwa-Chu, Associate Professor of Radiology

Robert H. Freiburger, Associate Professor of Radiology

Herman Grossman, Associate Professor of Radiology



Zuheir Mujahed, Associate Professor of Radiology  
 Nathan Paker, Clinical Associate Professor of Radiology  
 Harry L. Stein, Associate Professor of Radiology  
 Melvin Tefft, Associate Professor of Radiology  
 Joseph P. Whalen, Associate Professor of Radiology

Lowell Anderson, Assistant Professor of Radiology (Physics)  
 Harold A. Baltaxe, Assistant Professor of Radiology  
 Lawrence M. Blau, Assistant Professor of Radiology (Physics)  
 Joan M. Cameron, Assistant Professor of Radiology  
 F. Mitchell Cummins, Clinical Assistant Professor of Radiology  
 Michael Deck, Assistant Professor of Radiology  
 Eleanor Deschner, Assistant Professor of Radiology (Radiobiology)  
 Richard Evans, Assistant Professor of Radiology (Physics)  
 Bernard Ghelman, Assistant Professor of Radiology  
 Margaret Harrison, Assistant Professor of Radiology  
 Basil S. Hilaris, Assistant Professor of Radiology  
 Seymour Hopfan, Assistant Professor of Radiology  
 James Hurley, Assistant Professor of Radiology  
 David C. Levin, Assistant Professor of Radiology  
 Eladio Nunez, Assistant Professor of Radiology  
 Plinio Rossi, Clinical Assistant Professor of Radiology  
 Samuel Seal, Assistant Professor of Radiology  
 Henry M. Selby, Clinical Assistant Professor of Radiology  
 Ruth E. Snyder, Clinical Assistant Professor of Radiology  
 George Stassa, Assistant Professor of Radiology  
 Robin C. Watson, Assistant Professor of Radiology  
 Stephen White, Clinical Assistant Professor of Radiology  
 Patricia Winchester, Assistant Professor of Radiology

#### Instructors

Keith Arthur	Mina Farhad
Alan Baker	Andrew Haraway
Stephen Balter	Saad Hasan
Robert Bugbee	J. Garrett Holt
John Cavallari	Melvin J. Myers
Eugene Covington	William Newey
Peter Dobrowski	Lourdes Nisce

Patrick O'Kelly  
 Richard Packert

Samuel Phillips  
 Gian D. Ragazzoni

#### Clinical Instructor

Robert H. Leaming

#### Fellows

Paula Brill  
 Kermit Dewey  
 Harry Kozakewich  
 Samuel T. Lim

Klas Romberg  
 Lawrence Ross  
 Harry Shulman  
 Richard Stewart

The teaching of radiology extends through all of the four academic years. It includes didactic lectures, demonstrations, conferences with small groups in connection with clinical clerkships, presentations of the radiologic manifestations of disease at the regular conferences of the clinical departments, and a variety of elective courses.

During the first year, in collaboration with the Department of Anatomy, carefully planned demonstrations using radiographs and radiologic techniques are closely integrated with the dissection sessions in gross anatomy. The use of radiographs enhance the student's understanding of anatomical details and can provide him with a clearer perspective of important anatomical relationships. In the last trimester of the first year, the Department of Radiology participates in a multidisciplinary course in radiobiology.

In the second year during the course in physical diagnosis, several hours are devoted to radiologic examination of the heart, lungs, and abdomen.

The third-year student receives twenty hours of didactic lectures mainly on selected areas of roentgen diagnosis, roentgen therapy, and radiation protection.

The fourth-year student has a wide range of elective subjects in diagnostic radiology, nuclear medicine, and radiation therapy that are available to him. He may select a program at The New York Hospital, Memorial Hospital or the Hospital for Special Surgery, or a program that involves all three institutions. A clinical clerkship type of elective in radiation therapy is also available at the Memorial Hospital.

A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the Department.

Five floors of the L Building comprise the main Department of Radiology. A large diagnostic section is located in the Doctor Connie Guion Outpatient Building adjacent to the emergency pavilion. In addition, equipment for special examinations is located in the Women's Clinic, Urology Clinic, and the Payne Whitney Psychiatric Hospital.

The Firestone Radiation Therapy Center at

Memorial Hospital provides the latest clinical facilities for radiation therapy as well as ample space for teaching and research. Modern and well-equipped diagnostic radiology services are also located in the Memorial

Hospital and the Hospital for Special Surgery. New diagnostic radiology research facilities are located on the Sixth and Seventh floors of the William Hale Harkness Research Building.

## Surgery

Preston A. Wade, Emeritus Clinical Professor of Surgery, Acting Chairman

William A. Barnes, Clinical Professor of Surgery

William Cooper, Clinical Professor of Surgery  
John W. Draper, Clinical Professor of Surgery (Urology)

Cranston W. Holman, Clinical Professor of Surgery

C. Walton Lillehei, Lewis Atterbury Stimson Professor of Surgery

Victor F. Marshall, James J. Colt Professor of Urology in Surgery

S. W. Moore, Professor of Surgery

Robert L. Patterson, Jr., Professor of Surgery (Orthopedics)

Bronson S. Ray, Clinical Professor of Surgery (Neurosurgery)

Albert L. Rubin, Professor of Surgery (Biochemistry)

Lee Ramsay Straub, Clinical Professor of Surgery (Orthopedics)

Bjorn Thorbjarnarson, Clinical Professor of Surgery

John C. Whitsell II, Clinical Professor of Surgery

Philip D. Wilson, Jr., Clinical Professor of Surgery (Orthopedics)

Richard M. Bergland, Associate Professor of Surgery (Neurosurgery)

Jack H. Bloch, Associate Professor of Surgery

Rolla D. Campbell, Jr., Clinical Associate Professor of Surgery (Orthopedics)

Peter Dineen, Clinical Associate Professor of Surgery

Howard S. Dunbar, Clinical Associate Professor of Surgery (Neurosurgery)

John H. Eckel, Clinical Associate Professor of Surgery

George F. Egan, Clinical Associate Professor of Surgery (Dentistry)

Henry Gans, Associate Professor of Surgery

Helena Gilder, Associate Professor of Surgery (Biochemistry)

Edward I. Goldsmith, Clinical Associate Professor of Surgery

Dicran Goulian, Jr., Clinical Associate Professor of Surgery (Plastic Surgery)

Peter M. Guida, Clinical Associate Professor of Surgery

George R. Holswade, Clinical Associate Professor of Surgery

Allen E. Inglis, Clinical Associate Professor of Surgery (Orthopedics)

Bernard Jacobs, Clinical Associate Professor of Surgery (Orthopedics)

Leonhard Korngold, Associate Professor of Microbiology in Surgery (Orthopedics)

Eugene M. Lance, Associate Professor of Surgery (Orthopedics)

Russell W. Lavengood, Clinical Associate Professor of Surgery (Urology)

Frederick L. Liebolt, Clinical Associate Professor of Surgery (Orthopedics)

Henry Mannix, Jr., Clinical Associate Professor of Surgery

Robert W. McDivitt, Associate Professor of Surgery (Pathology)

John H. McGovern, Clinical Associate Professor of Surgery (Urology)

Laurence Miscall, Clinical Associate Professor of Surgery

Edward C. Muecke, Clinical Associate Professor of Surgery (Urology)

James A. Nicholas, Clinical Associate Professor of Surgery (Orthopedics)

William F. Nickel, Jr., Clinical Associate Professor of Surgery

Arthur J. Okinaka, Clinical Associate Professor of Surgery

Herbert Parsons, Clinical Associate Professor of Surgery (Neurosurgery)

Russel H. Patterson, Jr., Associate Professor of Surgery (Neurosurgery)

S. Frank Redo, Clinical Associate Professor of Surgery

Paul A. Skudder, Clinical Associate Professor of Surgery

Kurt H. Stenzel, Associate Professor of Surgery (Biochemistry)

George E. Wantz, Clinical Associate Professor of Surgery

William D. Arnold, Clinical Assistant Professor of Surgery (Orthopedics)

Stanley J. Behrman, Clinical Assistant Professor of Surgery (Dentistry)

Arthur R. Beil, Jr., Assistant Professor of Surgery

Francis A. Beneventi, Clinical Assistant Professor of Surgery (Urology)

Paul W. Braunstein, Clinical Assistant Professor of Surgery

Mitchell Brice II, Clinical Assistant Professor of Surgery (Urology)

Robert G. Carlson, Assistant Professor of Surgery

George N. Cornell, Clinical Assistant Professor of Surgery

Armand Cortese, Assistant Professor of Surgery  
 John H. Doherty, Assistant Professor of Surgery (Orthopedics)  
 J. Edwin Drew, Clinical Assistant Professor of Surgery (Urology)  
 Richard G. Eaton, Assistant Professor of Surgery (Orthopedics)  
 Sidney N. Eichenholtz, Clinical Assistant Professor of Surgery (Orthopedics)  
 Harold H. Genvert, Clinical Assistant Professor of Surgery  
 William R. Grafe, Jr., Assistant Professor of Surgery  
 Alexander Hersh, Clinical Assistant Professor of Surgery (Orthopedics)  
 Chen Ya Huang, Assistant Professor of Anatomy in Surgery (Orthopedics)  
 Gustavus A. Humphreys, Clinical Assistant Professor of Surgery (Urology)  
 John N. Insall, Clinical Assistant Professor of Surgery (Orthopedics)  
 Joseph T. Kauer, Clinical Assistant Professor of Surgery  
 Edward B. C. Keefer, Clinical Assistant Professor of Surgery  
 John G. Keuhnelian, Clinical Assistant Professor of Surgery (Urology)  
 Leon J. Kutner, Assistant Professor of Microbiology in Surgery (Orthopedics)  
 David B. Levine, Clinical Assistant Professor of Surgery (Orthopedics)  
 Victor Mayer, Clinical Assistant Professor of Surgery (Orthopedics)  
 Frederick C. McLellan, Clinical Assistant Professor of Surgery (Urology)  
 Charles K. McSherry, Clinical Assistant Professor of Surgery  
 Chitranjan S. Ranawat, Clinical Assistant Professor of Surgery (Orthopedics)  
 Robert Riggio, Assistant Professor of Surgery (Biochemistry)  
 James W. Smith, Clinical Assistant Professor of Surgery (Plastic Surgery)  
 Gabriel Schwartz, Assistant Professor of Surgery (Biochemistry)  
 Peter S. Walker, Assistant Professor of Bioengineering in Surgery (Orthopedics)

#### Instructors

James S. Bethea III  
 Walther H. O-S Bohne  
 Charles W. Carpenter  
 Claudio B. Charosky  
 William P. Crutchlow  
 Joseph C. DeFiore, Jr.  
 Michael J. Errico  
 Paul F. Fitzgerald  
 David F. Flanagan  
 Louis A. Fuchs  
 Victor M. Goldberg  
 Daniel A. Goor  
 Joseph V. Hajik  
 Randolph H. Guthrie  
 Charles Hamlin  
 Joseph I. Hoffman, Jr.  
 Louis Ivey  
 Louis R. Jordan  
 Robert L. Kaster  
 Herbert E. Kramer  
 Paul Lotke  
 John P. Lyden  
 John L. Marshall  
 David G. Mendes

Robert W. Milgram  
 Brian G. Miscall  
 Kevin P. Morrissey  
 Steven A. Muller  
 Anthony J. Natasi  
 William P. O'Grady  
 Robert Z. Pezzulich  
 J. Richard Rees  
 John W. Roache, Jr.  
 Robert K. Rosenthal

#### Clinical Instructors

Joel B. Adler  
 Samuel Avent  
 Howard D. Ballensweig  
 Michael Browne  
 William Bruton  
 Anthony Camarda  
 Robert B. Cameron  
 Thomas I. Carey  
 Robert L. Clarke  
 Edward C. Coats  
 Rudolph C. Dangelmajer

#### Research Associate

Ronald W. Gillette

#### Research Fellows

Jose Mario  
 DeCarvalho

#### Fellows

John M. Aronian  
 Stanley E. Asnis  
 Harry T. Barbaris  
 Louis J. Benton  
 Charles J. Bleifeld  
 Hugh Bredin  
 Bernard L. Brennan  
 Patrick J. Cannon  
 Jhoog S. Cheigh  
 John William Coleman  
 William T. Curry  
 Christopher J. Daly  
 David S. David  
 John E. Deitrick, Jr.  
 Guillermo E. Delgado  
 Serge J. Dos  
 Francis J. Duggan, Jr.  
 Robert J. Ellis  
 Jose M. Fabrega  
 Robert M. Farrell  
 Francis J. Gillen  
 Arthur L. Graff  
 Richard N. Hatfield  
 Steven D. Herman  
 Robert G. Hersch  
 Harry T. Hersey  
 Edgar H. J. Hift  
 Andre F. A. Jawde  
 William G. Johnston, Jr.

George Saj  
 Eduardo A. Salvati  
 Peter J. K. Starek  
 Valvanur Subramanian  
 Dumronk Thanachanant  
 John B. Thompson  
 Joseph B. Twichell  
 Steven I. Woodrow

Milton Gabel  
 Robert A. Goldstone  
 Peter Marchiesello  
 Joseph B. Mason  
 John B. Ogilvie  
 Earl A. O'Neil  
 Thomas D. Rizzo  
 Leon Root  
 David S. Speer  
 Konstantin P. Veliskakis  
 Robert S. Waldbaum

Katsutaka Mori  
 Kazuro Ogato

Anthony J. Kaiser  
 Robert M. Kass  
 Harvey A. Konigsberg  
 Stephen M. Kopp  
 Arnold J. Lande  
 Laurence R. LeWinn  
 Frederick P. Loy  
 Robert E. Mallin  
 Irvine G. McQuarrie  
 George W. Middleton  
 Gerald J. Monchik  
 Michael R. Nadeau  
 James S. Ogsbury III  
 Henry S. Partridge  
 Richard P. Pollis  
 Andrew J. Presto III  
 Marten W. Quadland  
 Jorge H. Reislin  
 Richard V. Remigallo  
 David M. Richter  
 Bruno Ristow  
 Rigoberto Sampson  
 Arthur A. Schwartz  
 Robert W. Selfe, Jr.  
 Mark M. Sherman  
 Jeffrey M. Sherwood  
 John J. Shine  
 Michael F. Silane  
 Garry L. Smith  
 Richard A. Smith  
 Clint H. Stander

## 98 Surgery

Jacqueline Struthers  
Richard N. Tiedemann  
Anthony J. Tortolani  
Jose R. Troconis  
Allen G. Tybor  
Luther F. Warren  
Russell F. Warren  
Robert Wayne

Jack S. Waxler  
John J. Williams  
Stephen F. Winer  
Dennis W. Wise  
Wataru Yamayoshi  
Henry C. Yu  
Orest V. Zaklynsky

### Research Assistant

Frederick G. Sumner II

## Memorial Hospital

Edward J. Beattie, Jr., Professor of Surgery,  
Chairman  
Theodore R. Miller, Clinical Professor of  
Surgery  
Willet F. Whitmore, Jr., Clinical Professor of  
Surgery (Urology)

Robert J. Booher, Clinical Associate Profes-  
sor of Surgery  
William G. Cahan, Clinical Associate Profes-  
sor of Surgery  
Eugene E. Clifton, Clinical Associate Profes-  
sor of Surgery  
Michael R. Deddish, Clinical Associate Pro-  
fessor of Surgery  
Hollon W. Farr, Clinical Associate Professor  
of Surgery  
Joseph H. Farrow, Clinical Associate Profes-  
sor of Surgery  
Joseph G. Fortner, Associate Professor of  
Surgery  
Edgar L. Frazall, Clinical Associate Professor  
of Surgery  
Harry Grabstald, Associate Professor of Sur-  
gery  
Ralph C. Marcove, Clinical Associate Pro-  
fessor of Surgery  
John L. Pool, Clinical Associate Professor of  
Surgery  
Guy F. Robbins, Clinical Associate Professor  
of Surgery  
Reuven K. Snyderman, Clinical Associate Pro-  
fessor of Surgery (Plastic Surgery)  
Maus W. Stearns, Jr., Clinical Associate Pro-  
fessor of Surgery  
Elliot W. Strong, Clinical Associate Professor  
of Surgery  
Jerome A. Urban, Clinical Associate Professor  
of Surgery

Lemuel Bowden, Clinical Assistant Professor  
of Surgery  
Richard D. Brasfield, Clinical Assistant Pro-  
fessor of Surgery  
Daniel Catlin, Clinical Assistant Professor of  
Surgery  
Donald G. C. Clark, Clinical Assistant Profes-  
sor of Surgery  
Philip R. Exelby, Assistant Professor of  
Surgery

Alfred A. Fracchia, Clinical Assistant Profes-  
sor of Surgery  
John S. Lewis, Clinical Assistant Professor  
of Surgery  
Lucille Loseke, Clinical Assistant Professor of  
Surgery  
Nael Martini, Assistant Professor of Surgery  
Charles J. McPeak, Clinical Assistant Profes-  
sor of Surgery  
Stuart H. Q. Quan, Clinical Assistant Pro-  
fessor of Surgery  
Charles E. Rogers, Clinical Assistant Pro-  
fessor of Surgery  
H. Randall Tollefsen, Clinical Assistant Pro-  
fessor of Surgery

### Instructors

Hiroyuki Ashikari  
Karamat U. Choudhry  
William H. Knapper

Thaddeus E.  
Starzynski

### Clinical Instructors

Myron Arlen  
Angelo J. DePalo  
Frank P. Gerold  
John T. Goodner  
Charles C. Harrold,  
Jr.  
Ralph E. L. Hertz

John C. Lucas  
A. Randal MacKenzie  
Oliver S. Moore  
Michael A. Paglia  
Elizabeth P. Pickett  
Horace W. Whiteley

### Fellows

Luis A. Algarra  
Manjit S. Bains  
David M. Berger  
William A. Bernie  
Rajendra K. Birla  
El B. Castro  
Michael J. Donnellan  
Ali El Domeiri  
S. R. Evans, Jr.  
James P. Gaston  
Bimal C. Ghosh

Richard I. Goldberg  
Dong-Heup Kin  
Stephen R. Lipson  
Pedro P. Munoz  
Solomon Savdie  
Jatin P. Shah  
Osama M. Soliman  
Alan D. Turnbull  
Yamin Zakarial-  
Miandoab

## General Surgery

**SECOND YEAR.** Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic and urologic examination. Tutors are assigned to groups of four students for supervision of history taking and physical examination.

Opportunities to participate in experimental procedures in the laboratories for surgical research are available in the summer and are supervised by members of the teaching staff.

**THIRD YEAR.** The new curriculum that went into effect in 1967 provides a core program of clinical teaching and experience in surgery to all students during eleven- or twelve-week periods of the third year. This

consolidates all the didactic and clinical teaching that previously was distributed through the third and fourth years, and leaves the fourth year for elective studies which the student may want to undertake.

Each quarter of the third year class spends from eleven to twelve weeks on the surgical pavilions and attends outpatient clinics in surgery and its subspecialties. In the outpatient department the students gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, taking full histories and doing complete physical examinations on the new patients to whom they are assigned. The work-up on each patient is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures and therapy are discussed. Each patient is seen on return visits by the same student in order that the results of diagnostic procedures and the clinical course may be observed first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of general surgery as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned to rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to evaluate therapy of the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. Each section is divided into operating teams of four: an anesthetist, a surgeon, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded by the students pre- and postoperative care simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, sepsis, hemostasis, and wound healing.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this distinction. It is important that we are aware of the background from which surgical patients come. The widest possible experience that we can provide a student to learn the background of

patients is to have him rotate through the general surgical and specialty clinics of the outpatient department. This experience not only provides an understanding of the source of surgical patients but also affords an opportunity for him to see what surgical therapy may accomplish. In addition, the student has the chance to observe the occasional post-operative complications in the follow-up clinics where patients return following surgery that has been performed within the hospital.

As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on each patient assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first hand the pathological condition for which the operation was undertaken. He attends the rounds held by the resident staff and members of the senior staff.

**TUTOR ASSIGNMENTS.** Attending surgeons are assigned as tutors to meet with small groups of the students for one hour twice a week, that is on Tuesdays and Thursdays. The tutor attempts to provide information to the students in his chosen field through examination and informal discussion of patients in the hospital or by formal presentation of his concept of clinical problems.

**FRACTURE CONFERENCE.** In the late afternoon each Tuesday a conference to review the fracture patients is conducted by the senior and resident staff and is attended and participated in by the surgical clinical clerks.

**STUDENT ROUNDS.** Every Wednesday afternoon planned sessions are held with the students on the surgical services. These sessions last for an hour and a half and are based upon broad surgical problems. Students are assigned to prepare for the subject presentations and patients are used to illustrate the problems under discussion. Two attending surgeons monitor these rounds and present their views on the subject. The idea is to encourage active participation on behalf of the students in presentation and somewhat informal discussion of broad surgical problems in order to detect and correct misconceptions and add to their practical knowledge.

**Grand Rounds.** From 9 to 10:30 a.m. on Saturday mornings clinical clerks attend grand rounds together with the entire resident and senior staff of the Department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

## 100 Special Students

**Emergency Service.** The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the outpatient clinics are closed—from 5 p.m. to 9 a.m. Monday through Friday and over the weekend. Seeing the wide range of conditions requiring emergency is a valuable experience for the clinical clerk.

**Seminar.** On Saturdays from 10:30 a.m. to 12 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present their evaluations of new advancements of surgery. The objective of these exercises is to introduce the medical student to the methods of evaluating new developments in surgery, so that later, as a physician, he will be

better able to assess, in a methodical and critical manner, new proposals for surgical treatment; so that he may be better able to guide the best therapeutic management of his patients.

By constant and uninterrupted association with "his" patients and those doctors who are caring for them, the student gains direct experience with the normal course which follows major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the student during his term on surgery.

**FOURTH YEAR.** In the fourth year the Department of Surgery offers a variety of electives, including experience in clinical fields as well as in the research laboratories. These are fully outlined in the *Catalog on Electives*.

## Special Students

*All students not registered in the Cornell University Graduate School of Medical Sciences and not registered for the M.D. degree are special students.*

Such students are *special students* in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special Students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

### Fees

MATRICULATION FEE: \$10.

ADMINISTRATION FEES: \$5.

Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

## Table of Required Hours

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy .....	143	...	...	...	
Microscopic Anatomy .....	187	...	...	...	330
BIOCHEMISTRY .....	154	...	...	...	154
BIOMETRICS .....		33	...	...	33
INTERDISCIPLINARY SESSIONS .....	66	...	...	...	66
INTRODUCTORY MEDICINE:					
Physical Diagnosis, Introduction to the Interview, Systems of Medical Care, and Sociological Deter- minants of Disease .....	88	...	...	...	88
MEDICINE:					
Clinical Pathology and Pathophysiology .....		80	...	...	
Lectures, Specialties, Clerkships, and OPD .....		...	430	...	510
MICROBIOLOGY AND IMMUNOLOGY .....		165	...	...	165
NEURAL SCIENCES:					
Neuroanatomy, Neurophysiology, and Neurology ....	77	...	...	...	77
NEUROLOGY:					
Lectures and Practical Instruction .....		44	155	...	199
OBSTETRICS AND GYNECOLOGY:					
Lectures and Practical Instruction .....		...	315	...	315
PATHOLOGY .....		297	...	...	297
PEDIATRICS:					
Lectures and Practical Instruction .....		...	315	...	315
PHARMACOLOGY .....		154	...	...	154
PHYSICAL DIAGNOSIS* .....		129	...	...	129
PHYSIOLOGY .....	165	...	...	...	165
PSYCHIATRY:					
Lectures and Practical Instruction .....		33	136	...	169
PUBLIC HEALTH:					
Parasitology .....		33	...	...	
Field and Section .....		...	36	...	
Lectures .....		11	30	...	110
RADIOLOGY .....		...	20	...	20
SURGERY:					
Lectures, Specialties, Clerkships, and OPD .....		...	430	...	430
ELECTIVES HOURS .....	154**	...	...	1225	1379
TOTALS .....	1034	979	1867	1225	5105

\* Includes medical, surgical, and gynecological aspects of physical diagnosis.

\*\* Number of hours varies from 154 to 308 depending upon student's program.

## 102 Schedules

### First-Year Schedule

1970-71

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Microscopic Anatomy	Microscopic Anatomy	Microscopic Anatomy	Gross Anatomy	Microscopic Anatomy	
10–11		Gross Anatomy				
11–12						
12–1	Lunch		Lunch	Microscopic Anatomy	Lunch	
1–2	Biochem.		Lunch	Biochem.	Lunch	
2–3	Introductory Med.	Biochem.	Elective—Free	Gross Anatomy	Microscopic Anatomy	
3–4		Elective—Free				
4–5	Interdisciplinary					
5–6						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Gross Anatomy	Physiol.	Gross Anatomy	Physiol.	Physiol.	
10–11		Neuro. Sci.		Neuro. Sci.		
11–12					Biochem.	
12–1	Biochem.	Biochem.	Biochem.	Biochem.		
1–2	Lunch	Lunch	Lunch	Lunch	Lunch	
2–3	Introductory Med.	Elective—Free	Elective—Free	Elective	Neuro. Sci.	
3–4						
4–5	Interdisciplinary					
5–6						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Physiol.	Elective—Free	Physiol.	Elective—Free	Physiol.	
10–11	Biochem.				Introductory Med.	
11–12						
12–1						
1–2	Lunch	Lunch	Lunch	Lunch	Lunch	
2–3	Biochem.	Elective—Free	Physiol.	Elective—Free	Introductory Med.	
3–4						
4–5	Interdisciplinary					
5–6						



## Second-Year Schedule

1970-71

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Pathology	Free	Pathology	Pathology	Pharmacology	
10–11		Pharmacology				
11–12						
12–1		CPC				
1–2	Lunch	Lunch	Lunch	Lunch	Lunch	
2–3	Microbiology	Epidem. I	Microbiology	Pharmacology	Microbiology	
3–4		Free		Epidem. I		
4–5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9–10	Pharmacology	Pharmacology	Pharmacology	Pathology	Pharmacology	
10–11	Pathology		Pathology			
11–12						
12–1	CPC		Free			
1–2	Lunch	Lunch	Lunch	Lunch	Lunch	
2–3	Microbiology and Parasitology	Free	Microbiology and Parasitology	Free	Microbiology and Parasitology	
3–4						
4–5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Medicine*	Medicine*	Epidem. II	Pathology	Psychiatry	
10-11			Medicine*			
11-12					CPC	
12-1		Lunch	Lunch	Lunch	Lunch	
2-3	Medicine*	Free	Medicine*	Medicine*	Medicine*	
3-4						
4-5						

\* Medicine time will be subdivided to provide for physical diagnosis, introductory medicine, neurology, and clinical pathology.

## Third-Year Schedule

1970-71

		12 weeks	11 weeks		7 weeks		7 weeks	8 weeks		
SECTION I: Div. A	Med.	Surg.	VACATION		Ob.	VACATION	Neurol., Psych., and Pub. Health	Ped.	SECTION I: Div. C	
					Ped.		Ob.	Neurol., Psych., and Pub. Health		Div. D
	Surg.	Med.			Neurol., Psych., and Pub. Health		Ped.	Ob.		Div. E
SECTION II: Div. C	Ob.	Neurol., Psych., and Pub. Health	CHRISTMAS	Ped.	Med.	SPRING		Surg.	SECTION II: Div. A	
	Ped.	Ob.		Neurol., Psych., and Pub. Health						Div. B
	Neurol., Psych., and Pub. Health	Ped.		Ob.	Surg.			Med.		
		8 weeks	8 weeks	7 weeks	11 weeks			11 weeks		

## Fourth-Year Schedule

1970-71

### Elective Modules

A	September 8–October 24	(seven weeks)
B	October 26–December 19	(eight weeks)
C	January 4–February 20	(seven weeks)
D	February 22–April 10	(seven weeks)
E	April 12–May 27	(seven weeks)

# Graduate School of Medical Sciences

## Division of Biomathematics

Sol I. Rubinow, Professor of Biomathematics  
Joel L. Lebowitz, Visiting Professor of Biomathematics

Tai Te Wu, Associate Professor of Biomathematics

Betty J. Flehinger, Visiting Associate Professor of Biomathematics

Richard P. Kelisky, Visiting Associate Professor of Biomathematics

Evelyn F. Keller, Visiting Assistant Professor of Biomathematics

### Visiting Research Associate

Mary Ann Angell

The work of the Division of Biomathematics is directed towards the development of quantitative methods in the biological and medical sciences, with special emphasis on the application of mathematics and the utilization of automatic computers. Courses in programming are offered from time to time, as warranted by demand. In addition, the follow-

ing elective courses are offered to medical students.

**FIRST YEAR: BIOMATHEMATICS.** This course is given in two trimesters, each of which may be taken separately. The first is devoted to selected mathematical topics in genetics; the second is devoted to the mathematical basis of selected physiological and pharmacological problems. Mathematical requirements will be developed as needed. There are no prerequisites. The course meets for one two-hour session per week. Drs. Rubinow and Wu.

**FOURTH YEAR.** In conjunction with elective offerings in other departments, biomathematical aspects of a student's investigations will be discussed. The purpose of this course is to familiarize the student with the mathematical basis for quantitative evaluation of clinical and experimental results. This elective requires special arrangement with the sponsor of the student's other elective. Sessions will average about two hours per week, at a day and time to be arranged. Staff.

# Internship Appointments

## Class of 1970

Averill, Robert M., Jr.	Surg. <sup>1</sup>	University of Colorado Medical Center, Denver, Colo.
Bartoshesky, Louis E.	Ped.	St. Louis Children's Hospital, St. Louis, Mo.
Becker, Dennis H.	Surg.	The New York Hospital, N.Y.
Bennett, Robert S.	Surg.	University of Washington Affiliated Hospitals, Seattle, Wash.
Blumencranz, Peter W.	Surg.	The New York Hospital, N.Y.
Blunt, Kenneth J.	Surg.	University Hospital of San Diego County, San Diego, Cal.
Borges, James S.	Med.	The New York Hospital; Memorial Hospital, N.Y.
Braham, Robert L.	Med.	Hospital of the University of Pennsylvania, Philadelphia, Pa.
Brewer, Richard J.	Surg.	University of Virginia Hospital, Charlottesville, Va.
Browne, David A.	Rot.	St. Joseph's Hospital, Phoenix, Ariz.
Cerwin, Robert A.	Med.	North Shore Hospital, Manhasset; Memorial Hospital, N.Y.
Chang, Cecil	Ped.	Stanford University Hospital, Stanford, Cal.
Charlton, Randolph S.	Med.	H. C. Moffitt-University of California Hospital, San Francisco, Cal.
Condon, Robert H.	Rot.	Greenwich Hospital, Greenwich, Conn.
Coonan, Patrick	Surg.	Denver General Hospital, Denver, Colo.
Cordani, Gerald J.	Med.	The New York Hospital; Memorial Hospital, N.Y.
Corvelli, Anthony I.	Med.	Georgetown University Hospital, Washington, D.C.
DeBell, Paul W.	Rot.	Harlem Hospital, N.Y.
Donovan, Thomas G.	Med.	Presbyterian-St. Luke's Hospital, Chicago, Ill.
Dropkin, Lloyd Richard	Surg.	The New York Hospital, N.Y.
Drucker, Richard B.	Med.	Jewish Hospital of St. Louis, St. Louis, Mo.
Fallon, Robert F. Jr.	Rot.	San Francisco General Hospital, San Francisco, Cal.
Goodhue, William W. Jr.	Path.	The New York Hospital, N.Y.
Haines, J. Glenn	Surg.	Strong Memorial Hospital, Rochester, N.Y.
Harbin, Thomas S., Jr.	Rot.	University of Washington Affiliated Hospitals, Seattle, Wash.
Hardin, Nicholas J.	Path.	The New York Hospital, New York, N.Y.
Harris, David F.	Rot.	Passavant Memorial Hospital, Chicago, Ill.
Haughton, Peter B. T.	Ped.	Johns Hopkins Hospital, Baltimore, Md.
Hearey, Charles D., Jr.	Ped.	H. C. Moffitt-University of California Hospital, San Francisco, Cal.
Hopson, Clark N.	Surg.	The New York Hospital, New York, N.Y.
Ingham, Robert E.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Jarvis, Peter A.	Surg.	Grady Memorial Hospital, Atlanta, Ga.
Karl, Diane M.	Med.	Jewish Hospital of St. Louis, St. Louis, Mo.
Karl, Richard C., Jr.	Surg.	Barnes Hospital, St. Louis, Mo.
Katz, Richard A.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Kessler, Kenneth J.	Rot.	University of Virginia Hospital, Charlottesville, Va.
Kirk, John W.	Med.	University of Chicago Hospitals, Chicago, Ill.
Kirtland, Howard H.	Med.	University of Virginia Hospital, Charlottesville, Va.
Knauert, Arthur P.	Surg.	The New York Hospital, New York, N.Y.
Latteri, Salvatore A. J.	Med.	St. Vincent's Hospital, New York, N.Y.
Lerner, David S.	Rot.	Greenwich Hospital, Greenwich, Conn.
Lobes, Louis A., Jr.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
MacQuarrie, Michael B.	Med.	Harlem Hospital, New York, N.Y.
Mattson, Richard L.	Rot.	Medical Center Hospitals of Vermont, Burlington, Vt.
McGoldrick, Kathryn E.	Ped.	The New York Hospital; Memorial Hospital, New York, N.Y.
Miller, Clifford R.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.

1. Symbols: Rot.—Rotating; Ped.—Pediatrics; Med.—Medicine; Path.—Pathology; Surg.—Surgery; Mx.—Mixed.

## 108 Internship Appointments

Miller, Robert G.	Rot.	Children's Hospital, San Francisco, Cal.
Moore, Stephen H.	Med.	Harlem Hospital, New York, N.Y.
Morris, Michael J.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Nigro, Michael F., Jr.	Surg.	The New York Hospital, New York, N.Y.
Nist, Richard T., Jr.	Ped.	The New York Hospital; Memorial Hospital, New York, N.Y.
Nuzzo, Roy M.	Surg.	Yale New Haven Medical Center, New Haven, Conn.
Prout, Robert E.	Med.	University Hospitals, Madison, Wisc.
Quinlan, Robert M.	Surg.	Peter Bent Brigham Hospital, Boston, Mass.
Richards, C. David	Surg.	Denver General Hospital, Denver, Colo.
Riley, William T., Jr.	Rot.	Passavant Memorial Hospital, Chicago, Ill.
Rosenberg, Mark J.	Med.	Bronx Municipal Hospital Center, Bronx, N.Y.
Rossomondo, Roger M.	Med.	University of Michigan Affiliated Hospitals, Ann Arbor, Mich.
Rubin, Robert J.	Surg.	Roosevelt Hospital, New York, N.Y.
Rubin, Roy M.	Med.	North Shore Hospital, Manhasset; Memorial Hospital, New York, N.Y.
Savvykyj, Juri	Rot.	Los Angeles County-USC Medical Center, Los Angeles, Cal.
Schick, Edgar C., Jr.	Med.	Mount Sinai Hospital, New York, N.Y.
Scholl, Susan E.	Surg.	Stanford University Hospital, Stanford, Cal.
Seides, Stuart F.	Med.	Eugene Talmadge Memorial Hospital, Augusta, Ga.
Sharkey, Francis E.	Med.	New England Medical Center, Boston, Mass.
Sigel, Richard M.	Surg.	Jackson Memorial Hospital, Miami, Fla.
Singer, Carol F.	Rot.	Greenwich Hospital, Greenwich, Conn.
Sperling, Richard A.	Med.	University Hospital, Boston, Mass.
Steier, Howard C.	Ped.	Bronx Municipal Hospital Center, Bronx, N.Y.
Streitfeld, Henry E.	Med.	Beth Israel Hospital, Boston, Mass.
Szilagyi, Peter I. A.	Path.	The New York Hospital, New York, N.Y.
Talbot, Michael D.	Rot.	Cedars Sinai Medical Center, Los Angeles, Cal.
Tax, Richard L.	Rot.	Greenwich Hospital, Greenwich, Conn.
Thomas, Eric J.	Rot.	Greenwich Hospital, Greenwich, Conn.
Thompson, Eric N.	Surg.	University of Washington Affiliated Hospitals, Seattle, Wash.
Thornhill, Thomas S.	Med.	Peter Bent Brigham Hospital, Boston, Mass.
Tosi, Stephen E.	Surg.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Tulumello, Joseph S.	Med.	The New York Hospital; Memorial Hospital, New York, N.Y.
Vogl, Steven E.	Med.	Bronx Municipal Hospital Center, Bronx, N.Y.
von Oesen, H. Davis	Surg.	University of Michigan Affiliated Hospitals, Ann Arbor, Mich.
Ward, Harold W., Jr.	Med.	St. Luke's Hospital, New York, N.Y.
Weber, Frederick L., Jr.	Med.	Bellevue-New York University Hospital, New York, N.Y.
Wineburgh, George L.	Med.	Bellevue University Veterans Administration Hospital, New York, N.Y.
Wooten, G. Frederick, Jr.	Med.	H. C. Moffitt-University of California Hospitals, San Francisco, Cal.

# Register of Students

## Fourth Year

Gerald Francis Abbott, B.S. 1967, Creighton University	Chicago, Ill.
Francis Vincent Adams, A.B. 1967, Georgetown University	Forest Hills, N.Y.
Lawrence Yawo Agodoo, B.A. 1967, State College of Iowa	Ghana, West Africa
Ronald Frederick Altman, A.B. 1967, Cornell University	Rockville Centre, N.Y.
Laurence Richard Avins, B.A. 1967, Amherst College	Princeton, N.J.
Alan Stuart Bahler, B.S.E.E. 1957, M.S.E.E. 1959, Newark College of Engineering; Ph.D. 1966, Johns Hopkins University	Houston, Texas
Richard Stuart Bailyn, A.B. 1967, Cornell University	Teaneck, N.J.
Charles Frederick Barer, B.A. 1967, Cornell University	Bronxville, N.Y.
Francis Joseph Bia, B.S. 1967, Fordham University	New York, N.Y.
Julian Bindler, A.B. 1967, Cornell University	Jamaica, N.Y.
Peter Anthony Blasco, B.S. 1967, Georgetown University*	Rosemount, Minn.
Wayne Robert Brinton, B.A. 1968, University of Utah	Salt Lake City, Utah
Paul Axtell Bunn, B.A. 1967, Amherst College	Dewitt, N.Y.
Lawrence Reid Burdge, Jr., B.A. 1964, Duke University	Red Bank, N.J.
Stephen William Burke, B.S. 1967, Spring Hill College	Elmira, N.Y.
Fred Chin Chu, A.B. 1967, Princeton University	Jersey City, N.J.
Arnold William Cohen, B.S. 1967, Bucknell University	Fair Lawn, N.J.
James Robert Cohen, A.B. 1967, Cornell University	Elkins Park, Pa.
David Allen Console, A.B. 1967, Cornell University	Roslyn, N.Y.
John Bennett Coombs, B.S. 1967, University of Washington*	Seattle, Wash.
Florence Grace Crawford, B.A. 1967, Drew University	Asbury Park, N.J.
Thomas James Crawford, A.B. 1967, Hamilton College	Whitesboro, N.Y.
John Frederick Crowe, A.B. 1967, Boston University	Norwood, Mass.
Robert Louis Cucin, B.S. 1967, Cornell University	New York, N.Y.
John Francis Denver, Jr., B.S. 1967, University of Notre Dame	Merrick, N.Y.
Jay Gaston DuBois, A.B. 1967, Cornell University	St. Louis, Mo.
Stephen Curtis Duck, A.B. 1967, Wesleyan University	Indianapolis, Ind.
Jeanette Arleah Easton, B.S. 1967, Muhlenberg College	Englishtown, N.J.
Jeffrey John Eckardt, B.A. 1967, Williams College	Memphis, Tenn.
Keith Fortier, B.A. 1967, Rutgers University	Mansaquean, N.J.
James Arthur Fry, B.S. 1967, Grinnell College	Naperville, Ill.
Kent R. Gamette, B.S. 1967, Brigham Young University	Provo, Utah
Walter Frederick George, B.A. 1967, Holy Cross College	Croton-on-Hudson, N.Y.
Jeffrey Neal Gingold, B.A. 1967, Tufts University	Great Neck, N.Y.
Robert Dana Gordon, B.A. 1966, Amherst College	Hewlett Harbor, N.Y.
David Ross Gutknecht, A.B. 1967, Cornell University	Nutley, N.J.
Eric Ian Gutnick, B.A. 1967, Ohio Wesleyan University	Philadelphia, Pa.
Ronald Keith Harris, B.S. 1967, Upsala College	Glen Ridge, N.J.
John David Haynes, Jr., B.S. 1967, Wheaton College	Nanuet, N.Y.
Boyd Frederick Helmkamp, B.A. 1967, Brown University	Miami, Fla.
Wynn Howard Hemmert, B.S. 1967, University of Utah	Afton, Wyo.
Richard Thomas Hoppe, B.A. 1967, Cornell University	Seaford, N.Y.
David Anthony Horvat, B.S. 1967, Boston College	Danielson, Conn.
John Joseph Janick, B.S. 1967, State University of New York (Albany)	Port Chester, N.Y.
Ronald Steven Kahan, B.A. 1967, Yale University	Larchmont, N.Y.
David Richard Kalifon, B.S. 1967, Rutgers University	New York, N.Y.
Morton Aaron Kamzan, B.S. 1967, Union College	Lido Beach, N.Y.
John Allen Kessler, B.A. 1967, Princeton University	Moorestown, N.J.
Mitchell Harlan Koch, A.B. 1967, Cornell University	Mt. Kisco, N.Y.
Timothy Walter Lane, B.A. 1967, Yale University	Houlton, Me.
Gregory Michael LaGana, B.S. 1966, St. Peter's College	Nutley, N.J.
Robert Laureno, A.B. 1967, Cornell University	University Heights, Ohio
Wayne Lawrence Letizia, B.A. 1967, Dartmouth College	Newark, N.J.
Barry Steven Levy, B.A. 1966, Tufts University	Bayonne, N.J.
David Seth Liebling, B.A. 1967, Rutgers University	Springfield, N.J.
Ivan Stewart Login, B.A. 1967, University of Pennsylvania	North Bergen, N.J.

\*On leave of absence, research fellowship.

## 110 Third Year

- Richard Alan Lynn, B.A. 1967, New York University  
 Christine Daniele Maisonneuve, C.P.E.M. 1966, University of Paris  
 Theo Clyde Manschreck, B.A. 1967, Carleton College\*  
 Kenneth Muir McConnochie, A.B. 1967, Dartmouth College  
 Sam Stanley Miller, A.B. 1967, Columbia University  
 Thomas Saunders Moore, B.A. 1967, University of Virginia  
 Peter Allen Monoson, B.A. 1967, Hamilton College  
 John Merritt Morse, B.A. 1967, Iowa State University  
 Patrick Joseph Murphy, A.B. 1967, Holy Cross College  
 Angel Jesus Olazabal, B.S. 1967, Manhattan College  
 Edward Carleton Palmer, A.B. 1967, Dartmouth College  
 John Craig Perlmuter, B.A. 1967, Queens College  
 Eugene John Pilek, B.S. 1967, Iona College  
 Henry Anthony Pitt, A.B. 1967, Cornell University  
 Robert Lawrence Protell, A.B. 1967, Rutgers University  
 Marianne Nucci Prout, B.A. 1967, Cornell University  
 Louis Edward Rambler, A.B. 1967, Princeton University  
 Charles William Rance, B.S. 1967, Georgetown University  
 John Peter Roberts, B.A. 1967, Middlebury College  
 Robert George Robinson, A.B. 1967, Cornell University  
 Nancy Josette Ronsheim, B.S. 1964, Cornell; M.A.T. 1965, Harvard University  
 Steven Gerald Rosenblatt, B.A. 1967, Vanderbilt University  
 Brian Raymond Rutley\*, B.A. 1967, University of San Francisco  
 William Atkinson Ruth, B.A. 1966, Yale University  
 Carl Howard Sadowsky, B.S. 1967, State University of New York (Stony Brook)  
 Bill Stuart Schanll, B.A. 1967, Kenyon College  
 Kenneth Victor Schwartz, A.B. 1967, Princeton University  
 David William Schwenker, B.S. 1967, Cornell University  
 Paul Wayne Shank, B.A. 1964, Cornell University  
 Roger Pancoast Simon, B.S. 1964, M.S. 1967, Pennsylvania State University  
 Bruce Michael Smith, B.S. 1967, Queens College  
 Peter George Sohnle, B.A. 1966, Rutgers University  
 James Morgan Sprott, Jr., B.A. 1967, Vanderbilt University\*  
 Donald Robert Steinmuller, B.A. 1967, Williams College  
 Nestor Bohdan Tomycz, B.S. 1967, Rensselaer Polytechnic Institute  
 Russell John Vergess, B.A. 1967, Columbia University  
 Michael Peter Weinstein, A.B. 1967, Cornell University  
 Robert George Wickiewicz, B.S. 1967, St. Peter's College  
 Richard James Yeager, B.A. 1967, Swarthmore College
- West Hempstead, N.Y.  
 Bronxville, N.Y.  
 Chicago, Ill.  
 Stamford, Conn.  
 San Antonio, Tex.  
 Newport News, Va.  
 Brooklyn, N.Y.  
 LaGrange, Ill.  
 Chicago, Ill.  
 Bayamon, P.R.  
 Little Compton, R.I.  
 Rego Park, N.Y.  
 Bronx, N.Y.  
 Union, N.J.  
 Fort Lee, N.J.  
 South Bend, Ind.  
 Cherry Hill, N.J.  
 Garden City, N.J.  
 Kingston, N.Y.  
 Pittsburgh, Pa.  
 Great Neck, N.Y.  
 Chevy Chase, Md.  
 Inglewood, Calif.  
 Ardsley-on-Hudson, N.Y.  
 Hollis, N.Y.  
 Hewlett, N.Y.  
 Millburn, N.J.  
 Scotia, N.Y.  
 Pittsburgh, Pa.  
 Philadelphia, Pa.  
 Bayside, N.Y.  
 Basking Ridge, N.J.  
 Lake Wales, Fla.  
 Marblehead, Mass.  
 Utica, N.Y.  
 Harrington Park, N.J.  
 Great Neck, N.Y.  
 Jersey City, N.J.  
 Toms River, N.J.

## Third Year

- Dianne Dilmaghani Aronian, B.S. 1962, Westminster College  
 Robert John Berry, B.S. 1968, University of Utah  
 Margaret Johnson Bia, B.S. 1968, Fordham University  
 Bruce Mark Bissonnette, B.S. 1968, Purdue University  
 Kenneth Ronald Blanchard, S.B. 1961, Massachusetts Institute of Technology, A.M.; Ph.D. 1967, Princeton University  
 John Timothy Boyle, B.S. 1968, University of Notre Dame  
 Bruce Lawrence Burgreen, B.A. 1968, Queens College  
 Robert William Carlson, B.S. 1968, University of Washington  
 Thomas William Castaldo, B.A. 1968, M.S. 1970, Rutgers University  
 James Henry Clifford, Jr., A.B. 1968, Dartmouth College  
 Henry Leon de Givé III, A.B. 1968, College of the Holy Cross  
 Robert Gary DeLong, B.A. 1968, Cornell University  
 William Augustus Donnelly, Jr., B.A. 1968, Yale University  
 Patricia Anne Duerr, A.B. 1966, College of New Rochelle  
 Lawrence H. Ehrlich, B.A. 1968, Western Reserve University  
 Lawrence David Eisenhauer, B.A. 1968, Dartmouth College  
 Martin Peter Elliott, B.A. 1968, Reed College  
 Robert Patrick Ferguson, B.A. 1968, Cornell University
- New York, N.Y.  
 Golden, Colo.  
 Brooklyn, N.Y.  
 Evansville, Ind.  
 New York, N.Y.  
 Suffern, N.Y.  
 Jamaica, N.Y.  
 Mercer Island, Wash.  
 Lindenhurst, N.Y.  
 Merrick, N.Y.  
 Atlanta, Ga.  
 Manlius, N.Y.  
 Weston, Vt.  
 Jackson Heights, N.Y.  
 Mamaroneck, N.Y.  
 Barrington, R.I.  
 Centerport, N.Y.  
 Slingerlands, N.Y.

\*On leave of absence, research fellowship.



- Frederick John Ferlic, B.S. 1968, University of Notre Dame  
 David Stoker Folland, B.S. 1968, University of Utah  
 William Webster Frayer, B.S. 1966, M.S. 1968, Cornell University  
 Marc Jay Friedman, A.B. 1968, Princeton University  
 James Edward Gadek, B.S. 1968, Georgetown University  
 Ralph Joseph Gemelli, B.S. 1968, United States Naval Academy  
 Frank William Gamache, Jr., B.A. 1969, Wesleyan University  
 Robert Jay Goldenkranz, A.B. 1968, New York University  
 Thomas William Griffin, B.S. 1968, Boston College  
 Robert Russell Hackford, Jr., B.A. 1968, Harvard University  
 Newell Anthony Hargett, B.S. 1968, Xavier University  
 Daniel Malin Hayes, B.S. 1968, Fairfield University  
 Paul George Hess, B.A. 1968, Fordham University  
 Irving Mark Hiatt, B.A. 1968, Cornell University  
 Jonathan Willard Hopkins, B.S. 1966, Massachusetts Institute of Technology  
 James Wethington Husted, B.A. 1968, Villanova University  
 Barton Inkeles, B.S. 1968, Brooklyn College  
 Charles Ignatius Jarowski, B.A. 1968, Columbia University  
 John Walter Jaski, B.A. 1968, Fordham University  
 David Cedric Jimerson, A.B. 1968, Harvard University  
 Ralph Michael Kamell, B.S. 1968, Cornell University  
 Michael Jerome Kaminsky, B.A. 1967, Yale University  
 Glen Ray Karchner, B.S. 1968, University of Arizona  
 Kenneth Sherrard Kelleher, Jr., A.B. 1968, College of the Holy Cross  
 Martin Barry Keller, B.A. 1968, Dartmouth College  
 Thomas Lyle Kennedy III, B.A. 1968, Princeton University  
 Bart Peter Ketover, A.B. 1968, Princeton University  
 William Barry Kleinman, B.A. 1968, Rutgers University  
 Thomas Monroe Krop, A.B. 1968, Cornell University  
 Mary Kathryn Kukulich, A.B. 1968, Cornell University  
 Michael Hugh Lavyne, A.B. 1968, Williams College  
 Daniel Lyons Leary, Jr., A.B. 1960, Harvard University  
 Bruce Kerr Lloyd, B.S. 1968, Pennsylvania State University  
 Neil Ross MacIntyre, Jr., B.S. 1968, University of San Francisco  
 Philip Hugh Maguire, B.S. 1968, St. Peter's College  
 Jonathan Mardirossian, B.A. 1968, Williams College  
 Henry Masur, A.B. 1968, Dartmouth College  
 Richard Edward Mattison, B.A. 1968, Lafayette College  
 Paul Thomas McDonald, B.S. 1965, United States Military Academy  
 Donald Harwood Morgan, B.A. 1962, Cornell University  
 Henry Wilke Murray, A.B. 1968, Cornell University  
 Michael Anthony Mustille, B.A. 1968, Williams College  
 John Tobias Nagurney, A.B. 1967, Harvard University  
 Peter Edward Nielsen, B.A. 1968, New York University  
 Michael William Panio, B.A. 1968, Cornell University  
 Joseph Edison Parrillo, Jr., A.B. 1968, Dartmouth College  
 James Benjamin Peake, B.S. 1966, United States Military Academy  
 James Stapleton Reilly, B.A. 1966, Fordham University; M.S. 1968, Boston College  
 Robert John Riesenfeld, A.B. 1968, Duke University  
 Peter Scott Robinson, A.B. 1968, Cornell University  
 Jon Anderson Rothenberg, A.B. 1963, Harvard University  
 Judith Anne Scheraga, B.A. 1968, Cornell University  
 William Norman Scott, B.A. 1968, University of Pennsylvania  
 Ryan Stuart Searle, B.S. 1968, University of Utah  
 Geoffrey William Sheridan, B.S. 1968, Rensselaer Polytechnic Institute  
 Barry Hamilton Smith, A.B. 1965, Harvard University; Ph.D. 1968, Massachusetts Institute of Technology  
 Joseph Lorenzo Smith, 1968, B.S. University of Utah  
 Thomas William Smith, 1968, B.S. Ohio State University  
 Dorothy Jacqueline Stein, B.A. 1968, University of Pennsylvania  
 Mark Andrew Sullivan, A.B. 1968, College of the Holy Cross  
 Karl Chia-Tsen Sze, B.A. 1968, Cornell University  
 Frederick Elliot Tabachnick, B.A. 1968, Queens College  
 Carroll, Iowa  
 Salt Lake City, Utah  
 Endwell, N.Y.  
 Baltimore, Md.  
 Woodbridge, N.H.  
 Jamaica, N.Y.  
 Madison, Conn.  
 Brooklyn, N.Y.  
 Glen Ridge, N.J.  
 Concord, Mass.  
 Maysville, Ky.  
 Hartford, Conn.  
 Buffalo, N.Y.  
 Syracuse, N.Y.  
 Urbana, Ill.  
 Rochester, N.Y.  
 New York, N.Y.  
 Massapequa Park, N.Y.  
 Rome, N.Y.  
 Sinking Spring, Pa.  
 Elizabeth, N.J.  
 Memphis, Tenn.  
 St. David, Ariz.  
 Alexandria, Va.  
 West Hempstead, N.Y.  
 Allentown, Pa.  
 Hewlett Harbor, N.Y.  
 Glen Rock, N.J.  
 McLean, Va.  
 Kalamazoo, Mich.  
 Newburgh, N.Y.  
 Newburyport, Mass.  
 Newton Square, Pa.  
 La Jolla, Calif.  
 Belleville, N.J.  
 White Plains, N.Y.  
 Washington, D.C.  
 Bradford, Pa.  
 Rockville Centre, N.Y.  
 Claymont, Del.  
 Washington, D.C.  
 Willard, N.Y.  
 Cornwall, N.Y.  
 New York, N.Y.  
 Yonkers, N.Y.  
 Paterson, N.J.  
 Kensington, Md.  
 Forest Hills, N.Y.  
 Oradell, N.J.  
 Findley Lake, N.Y.  
 Pittsburgh, Pa.  
 Ithaca, N.Y.  
 Jersey City, N.J.  
 Salt Lake City, Utah  
 Massapeque, N.Y.  
 Greenwich, Conn.  
 Green River, Wyo.  
 Columbus, Ohio  
 Philadelphia, Pa.  
 Springfield, Mass.  
 Upper Montclair, N.J.  
 Bayside, N.Y.

## 112 Second Year

Jerome William Takiff, B.A. 1968, Rutgers University  
 Richard Harrison Tuck, A.B. 1968, Franklin and Marshall College  
 Richard Walter Urbanek, B.A. 1968, Queens College  
 Jeffrey David Urman, B.S. 1967, University of Connecticut  
 August John Valenti, B.S. 1968, Saint Peter's College  
 Mark Vrana, B.S. 1968, Cornell University  
 Robert Alan Weinstein, A.B. 1968, Cornell University  
 Roy Glen Wiggans III, A.B. 1968, Bucknell University  
 Donald Drake Wilson, B.A. 1968, Colgate University  
 Stephen George Wood, B.A. 1968, Stanford University

Elizabeth, N.J.  
 Johnstown, Pa.  
 Floral Park, N.Y.  
 Stamford, Conn.  
 Wayne, N.J.  
 Ithaca, N.Y.  
 Chicago, Ill.  
 Westport, Conn.  
 Ridgewood, N.J.  
 Palo Alto, Calif.

## Second Year

Robert Irving Appel, B.A. 1969, Columbia University  
 John Richard Batiuchok, B.A. 1969, Princeton University  
 Neil Arnold Beinhaker, B.A. 1969, Princeton University  
 Stuart Michael Bergman, B.A. 1969, Harpur College  
 James Lawrence Bernat, B.A. 1969, University of Massachusetts  
 William Roscoe Blankenship, B.A. 1969, University Nebraska  
 Henry Robert Bleier, B.S. 1969, City College of New York  
 William Charles Bond, B.S. 1962, United States Naval Academy  
 Neil Irwin Brody, B.A. 1965, Boston University,  
 Ph.D. 1970, New York University  
 Francis Joseph Browne, B.S. 1969, Georgetown University  
 Amelia Burnham, B.A. 1969, Middlebury College  
 Richard Michael Cabot, B.S. 1968, Dickinson College  
 David Jay Caro, B.A. 1969, University of Chicago  
 Nora Cooke, B.S. 1968, Tulane University  
 Ralph Carl Dilorio, B.A. 1969, Fordham University  
 Craig Bruce DuMond, B.S. 1969, Cornell University  
 Allen Marshall Epstein, B.A. 1969, New York University  
 Lonnie Marc Epstein, B.S. 1969, Dickinson College  
 Joseph Feinberg, A.B. 1969, Cornell University  
 Gregory Alan Filice, B.A. 1969, University of California (Berkeley)  
 Bertram Martin Froehly, Jr., B.S. 1969, Tulane University  
 Allan Gibofsky, B.S. 1969, Brooklyn College  
 George Mendel Goldmark, B.S., M.S. 1969, Massachusetts  
 Institute of Technology  
 Harry Goldmark, B.S., M.S. 1969, Massachusetts Institute of Technology  
 Howard Monroe Greilsheimer, B.S. 1969, City College of New York  
 Douglas Russell Hadley, B.A. 1969, University of Utah  
 Edward Louis Hedlund, B.S. 1969, Iowa Wesleyan College  
 William Peden Homan, B.A. 1969, Williams College  
 David Daniel Hunt, B.S. 1969, University of Washington  
 Richard Paul Ingrasci, B.A. 1969, Cornell University  
 Jonathan Eliot Kaplan, B.A. 1969, Cornell University  
 Stephen Rogers Karl, B.A. 1969, Cornell University  
 Allan Lee Kayne, B.A. 1969, University of Virginia  
 Thomas Joseph Kinane, B.S. 1969, United States Military Academy  
 Daniel Benjamin Klein, B.A. 1969, Dartmouth College  
 Mark Steven Joel Klempner, Tulane University  
 Lawrence William Koblenz, B.A. 1969, Columbia University  
 Jerold Jay Kreisman, B.S. 1969, Washington University  
 Roy Gerald Kulick, B.A. 1969, New York University  
 Paul Bruce Lang, B.A. 1969, New York University  
 Gerard Vincent LaSalle, B.A. 1969, Reed College  
 Charles Steven Levy, A.B. 1969, Washington University  
 Gary Charles Linn, A.B. 1969, Rutgers University  
 Benjamin Alan Lipsky, B.A. 1969, Queens College  
 Dennis Joseph Lutz, B.S. 1969, Montana State University  
 John Joseph Malgieri, B.A. 1969, College of the Holy Cross  
 Albert Henry Mangold, B.S. 1969, Union College  
 Mark Harris Mazur, B.S. 1969, Brooklyn College  
 Mark Gerald Fielding McCormick, B.A. 1969, Yale University

New York, N.Y.  
 Flushing, N.Y.  
 Union, N.J.  
 Cedarhurst, N.Y.  
 Cincinnati, Ohio  
 Lincoln, Nebraska  
 New York, N.Y.  
 Memphis, Tenn.

New York, N.Y.  
 Brooklyn, N.Y.  
 Bethesda, Md.  
 Ardsley, N.Y.  
 Hackensack, N.J.  
 Mexico City, Mex.  
 Yonkers, N.Y.  
 Walton, N.Y.  
 Brooklyn, N.Y.  
 Pound Ridge, N.Y.  
 Westbury, N.Y.  
 Orinda, Calif.  
 Vandalia, Ill.  
 New York, N.Y.

New York, N.Y.  
 New York, N.Y.  
 New York, N.Y.  
 Salt Lake City, Utah  
 Ottumwa, Iowa  
 White Plains, N.Y.  
 Ferndale, Wash.  
 Niagara Falls, N.Y.  
 Columbus, Ohio  
 Etna, New Hampshire  
 Richmond, Va.  
 Brooklyn, N.Y.  
 Glen Cove, N.Y.  
 Miami Beach, Florida  
 New York, N.Y.  
 St. Louis, Mo.  
 Bronx, N.Y.  
 Flushing, N.Y.  
 Portland, Ore.  
 Butler, Mo.  
 Union City, N.J.  
 New York, N.Y.  
 Havre, Mont.  
 Crestwood, N.Y.  
 Albany, N.Y.  
 New York, N.Y.  
 East Aurora, N.Y.

Dennis Bernard McIntyre, A.B. 1969, Fordham University  
 Philip John McWhorter, B.S. 1969, St. Lawrence University  
 Paul Alan Menitoff, B.J.Ed. 1967, Hebrew Teachers College;  
 B.A. 1969, Harvard University  
 John Albert Michal III, B.A. 1969, Cornell University  
 Jay Allan Midwall, B.A. 1969, Queens College  
 John Pope Mitchell, B.A. 1969, Cornell University  
 Bruce Wright Moulton, A.B. 1968, Cornell University  
 Michael John Murphy, A.B. 1969, Northwestern University  
 Stuart Bruce Mushlin, B.A. 1969, University of Rochester  
 Peter T. Nieh, B.A. 1969, Cornell University  
 Terrence Adams O'Malley, B.A. 1969, Amherst College  
 Neil Edward Pauker, A.B. 1969, Princeton University  
 Jon Arthur Perlman, B.A. 1969, Lafayette College  
 Jeffrey Manning Piehler, B.A. 1969, Williams College  
 Vincent Gregory Pons, B.S. 1969, Georgetown University  
 Joseph Anthony Putrino, B.S. 1969, St. Peter's College  
 John Christopher Quatromoni, B.A. 1969, Fordham University  
 Neil Douglas Ravin, A.B. 1969, Brown University  
 Lawrence Tuck Reese, B.A. 1969, New York University  
 Brendan Michael Reilly, B.A. 1969, Fordham University  
 Philip Cullen Reilly, B.A. 1969, Fordham University  
 William Marvin Riedesel II, B.A. 1968, University of Rochester  
 Stanley Harvey Rosenbaum, A.B. 1967, Columbia University;  
 M.A. 1969, Harvard University  
 Richard Joseph Ryter, B.A. 1969, College of the Holy Cross  
 Arthur Barry Sanders, B.A. 1969, Brooklyn College  
 William Michael Scheld, B.S. 1969, Cornell University  
 Robert Alan Schultz, A.B. 1969, Hamilton College  
 Edward Michael Sessa, B.A. 1969, College of the Holy Cross  
 Clifford Jay Simon, B.A. 1967, Swarthmore College  
 Mark Charles Sivakoff, B.A. 1969, Queens College  
 Jechezkiel Jack Skowronski, B.A. 1969, Brandeis University  
 Sherman Gordon Sorensen, B.A. 1969, University of Utah  
 William Farnham Taylor, B.A. 1969, Yale University  
 JoAnn Theodore, B.A. 1969, Cornell University  
 Richard Englund Tosi, B.S. 1969, Trinity College  
 Robert Keith Von Rueden, B.A. 1969, University of Notre Dame  
 Franzanne Vreeland, A.B. 1969, Cornell University  
 Brian Keith Walker, B.A. 1969, Princeton University  
 Nicholas Geoffrey Ward, B.A. 1969, Cornell University  
 Jeffrey Stephen Wasser, B.A. 1969, Rutgers University  
 Robert Claringbold Young, B.A. 1969, Williams College  
 David Zigelman, B.A. 1969, Yeshiva University

Port Washington, N.Y.  
 Argyle, N.Y.  
 Chestnut Hill, Mass.  
 Homewood, Ill.  
 Forest Hills, N.Y.  
 Brooklyn, N.Y.  
 Marblehead, Mass.  
 Neenah, Wisc.  
 New City, N.Y.  
 New Hyde Park, N.Y.  
 Amherst, Mass.  
 Kingston, N.Y.  
 Belle Harbor, N.Y.  
 Williamstown, Mass.  
 Belleville, N.J.  
 Union City, N.J.  
 Milton, Mass.  
 Bethesda, Md.  
 Flushing, N.Y.  
 New York, N.Y.  
 New York, N.Y.  
 Denver, Colo.  
 Brooklyn, N.Y.  
 West Hartford, Conn.  
 New York, N.Y.  
 Ithaca, N.Y.  
 Fair Lawn, N.J.  
 Bronxville, N.Y.  
 Tenafly, N.J.  
 Flushing, N.Y.  
 Bridgeport, Conn.  
 Salt Lake City, Utah  
 Byram, Conn.  
 Lake Placid, N.Y.  
 Shrewsbury, Mass.  
 East Troy, Wisc.  
 Schenectady, N.Y.  
 University Park, Pa.  
 Green Village, N.J.  
 Somerville, N.J.  
 Binghamton, N.Y.  
 North Bergen, N.J.

## First Year

Victor Paul Addonizio, B.A. 1970, New York University  
 Francis Peter Arena, B.S. 1970, Fordham University  
 John Bruce Bartolini, B.A. 1970, Cornell University  
 Frederick Calvin Basilico, B.S. 1970, Fairfield University  
 Charles Francis Besanceney, B.S. 1968, United States Military Academy  
 Rita Ann Blanchard, B.A. 1966, Vassar College  
 James Ferdinand Caravelli, B.S. 1970, University of Illinois  
 Dominick Raymond Chiarieri, B.S. 1970, St. Peter's College  
 Arvin Hong Chin, B.S. 1970, Cornell University  
 Michael Alton Chizner, B.A. 1970, New York University  
 Steven Norton Cohen, A.B. 1970, Boston University  
 Sol Jay Dan, B.A. 1970, Yeshiva University  
 Sharon Lillian Elefant, A.B. 1970, Cornell University  
 George Caldwell Ellis, B.A. 1970, Brown University  
 John Benjamin Famiglietti, B.S. 1970, St. Peter's College  
 Joseph Finkelstein, B.S. 1970, Hofstra University  
 Gary Ronald Fisch, B.A. 1970, Columbia University

Brooklyn, N.Y.  
 Forest Hills, N.Y.  
 Morristown, N.J.  
 Providence, R.I.  
 Elmira, N.Y.  
 New York, N.Y.  
 No. Chicago, Ill.  
 Belleville, N.J.  
 Queens, N.Y.  
 Nassau, N.Y.  
 Hartford, Conn.  
 Memphis, Tenn.  
 New York, N.Y.  
 New York, N.Y.  
 Jersey City, N.J.  
 Bethpage, N.Y.  
 Indianapolis, Ind.

- David Roger Fulton, A.B. 1970, Clark University  
 Roger Dale Gingrich, B.A. 1970, Macalester College  
 Burton Mark Gold, B.A. 1970, New York University  
 Alan Warren Goldfeder, B.S. 1970, McGill University  
 Daniel Benjamin Goodman, B.A. 1970, Yale University  
 Terrence Lynn Goodman, B.A. 1970, Cornell University  
 Steven Ifor Gutman, B.S. 1970, Ohio State University  
 Roger Pettit Harrie, B.S. 1970, University of Utah  
 Joseph Laverne Harris, B.S. 1970, American University  
 Henry Jim Hernandez, B.A. 1970, City College of New York  
 Roger Glennie Hicks, A.B. 1970, Brown University  
 Stephen Lev Hoffman, B.A. 1970, University of Pennsylvania  
 George Perry Hubert, B.S. 1967, United States Military Academy  
 Cosmo Gordon Jacobs, B.A. 1970, Hampton Institute  
 Alan Howard Jaffe, B.A. 1970, Amherst College  
 Marc Edward Kaminsky, B.A. 1970, Emory University  
 Eric John Kawaoka, B.A. 1970, University of Hawaii  
 Barry Dana Kels, B.A. 1970, Franklin and Marshall College  
 Paul King, B.A. 1965, Brooklyn College; M.S. 1969, Long Island University  
 Robert William Kohn, B.A. 1970, Yale University  
 John Newton Krieger, A.B. 1970, Princeton University  
 Gilbert Joseph Kuhn, B.A. 1967, University of San Francisco  
 Carl Martin Leichter, B.A. 1970, Kenyon College  
 Marshall Richard Levine, B.A. 1970, Emory University  
 Sidney Leonard Levinson, B.A. 1970, Cornell University  
 Stuart Bryson Ley, B.A. 1970, Dartmouth College  
 Laurence Howard Lief, B.A. 1970, Princeton University  
 Ka-Shui Lo, B.S. 1970, McGill University  
 Richard Nathan Lopatin, B.A. 1970, Wesleyan University  
 Scott Lyman Maass, B.S. 1970, University of California (Davis)  
 Robert William Mackie, B.A. 1970, Hobart College  
 Leonard Louis Magnani, B.A. 1966, Queens College; M.A. 1967, Queens College; Ph.D. 1970, Stanford University  
 Philip John Makowski, B.S. 1970, Georgetown University  
 Paul Mailer, B.A. 1970, Queens College  
 Robert Philip Mantica, B.A. 1970, Amherst College  
 David Alan Mayer, A.B. 1970, Lafayette College  
 Richard Lucas McCann, B.A. 1970, Middlebury College  
 Thomas Patrick McGovern, B.E.E. 1968, Manhattan College  
 Jay Blaine Miller, B.A. 1970, Cornell University  
 Paul David Mitnick, B.A. 1970, Cornell University  
 Richard Michael Moccia, B.A. 1970, Columbia University  
 Mark Harlow Montgomery, B.A. 1970, Denison University  
 John Edward Nees, B.S. 1970, Cornell University  
 Judith Ann Nowak, B.A. 1970, Cornell University  
 Robert Stephen O'Connell, B.A. 1970, Williams College  
 Michael Evan Osband, B.A. 1970, Johns Hopkins University  
 Bella Pace, B.A. 1970, Cornell University  
 Lynda Michele Parker, B.A. 1968, C.W. Post College, M.S. 1970, New York University  
 Charlesworth Emery Philip, B.A. 1970, Hampton Institute  
 Winston St. Clair Price, B.A. 1970, Brooklyn College  
 Peter Francis Purcell, B.A. 1970, College of the Holy Cross  
 Robert James Quinet, B.A. 1970, Rutgers College  
 John Scott Raymond, B.S. 1970, Utah State University  
 William Vincent Rees, B.A. 1970, University of Utah  
 Robert Allan Reichert, B.A. 1970, Amherst College  
 Gene David Resnick, B.S. 1970, Cornell University  
 Charles Milton Rhodes, B.A., Hampton Institute  
 Ronald Nathan Riner, B.A. 1970, Princeton University  
 Allan Howard Ropper, B.A. 1970, Cornell University  
 Alfred Sakradse, B.A. 1970, Queens College  
 James Tahlman Saunders, B.A. 1970, Hampton Institute  
 Thomas John Schrieber, B.S. 1970, Muhlenberg College  
 Scarsdale, N.Y.  
 Roanoke, Ill.  
 Scarsdale, N.Y.  
 Norwalk, Conn.  
 North Caldwell, N.J.  
 Williamsport, Pa.  
 Dayton, Ohio  
 Salt Lake City, Utah  
 Washington, D.C.  
 Bronx, N.Y.  
 Rochester, N.Y.  
 Deal Park, N.J.  
 Rockville Centre, N.Y.  
 Antigua, West Indies  
 Great Neck, N.Y.  
 Savannah, Georgia  
 Honolulu, Hawaii  
 Merrick, N.Y.  
 Brooklyn, N.Y.  
 Montgomery, Pa.  
 Ellenville, N.Y.  
 San Francisco, Calif.  
 Woodmere, N.Y.  
 Miami Beach, Fla.  
 Middletown, Conn.  
 Rye, N.Y.  
 Olivette, Mo.  
 Hong Kong, China  
 Fairfield, Conn.  
 Sacramento, Calif.  
 Cooperstown, N.Y.  
 Stanford, Calif.  
 Williston Park, N.Y.  
 Jamaica, N.Y.  
 Milton, Mass.  
 New York, N.Y.  
 Yarmouth, Maine  
 New York, N.Y.  
 York, Pa.  
 Ithaca, N.Y.  
 Bronx, N.Y.  
 Springfield, Ill.  
 Lafayette, Ind.  
 Romulus, N.Y.  
 Darien, Conn.  
 Rochester, N.Y.  
 New York, N.Y.  
 Philadelphia, Pa.  
 Antigua, West Indies  
 Brooklyn, N.Y.  
 Schenectady, N.Y.  
 Edison, N.J.  
 Logan, Utah  
 Salt Lake City, Utah  
 Wilmette, Ill.  
 Oceanside, N.Y.  
 Elizabethtown, N.C.  
 Peekskill, N.Y.  
 New York, N.Y.  
 College Point, N.Y.  
 Antigua, West Indies  
 Ventnor, N.J.

Kenneth James Smith, B.A. 1970, Fordham University  
 Peter Howard Stone, B.A. 1970, Princeton University  
 Donald Folusho Temple, B.A. 1970, Hampton Institute  
 Ronald Seymour Weaver, B.S. 1970, Hobart College  
 Michael Alan Weitz, B.S. 1970, Muhlenberg College  
 Robert Lloyd Weston, B.A. 1970, Rutgers University  
 Charles Warren Whitney, B.A. 1970, Alfred University  
 Barry Martin Wilkes, B.A. 1970, New York University  
 Lytton Ade-Kunle Williams, B.A. 1970, Hampton Institute  
 Richard John Yarger, B.A. 1970, Northwestern University  
 Michael James Zema, B.S. 1970, Fordham University

White Plains, N.Y.  
 Maplewood, N.J.  
 Sierra Leone, West Africa  
 St. Albans, N.Y.  
 Woodbury, N.Y.  
 Sussex, N.J.  
 Chemung, N.Y.  
 Brooklyn, N.Y.  
 Sierra Leone, West Africa  
 Dayton, Ohio  
 East Paterson, N.J.

## SUMMARY

Fourth Year .....	95
Third Year .....	90
Second Year .....	91
First Year .....	91
Total .....	367

# Register of the Medical College

Abbey, Albert A. ....	Medicine .....	77
Abel, Henriette E. ....	Medicine .....	75
Abel, Robert R. ....	Medicine .....	75
Adelson, Edward T. ....	Psychiatry .....	90
Adler, Jill M. ....	Microbiology .....	78
Adler, Joel B. ....	Surgery .....	97
Adler, Karl P. ....	Medicine .....	77
Advocate, Seymour .....	Medicine .....	73
Alderman, Michael .....	Public Health .....	93
Alexander, Benjamin .....	Medicine .....	73
Algarrá, Luis A. ....	Surgery .....	98
Ali, S. Sabir .....	Medicine .....	77
Allen, Fred H. ....	Pediatrics .....	86
Alonso, Daniel R. ....	Pathology .....	85
Anderson, Arthur A., Jr. ....	Psychiatry .....	90
Anderson, Arthur F. ....	Pediatrics (Emeritus) .....	41
Anderson, Gerald A. ....	Psychiatry .....	90
Anderson, Karl .....	Medicine .....	77
Anderson, Lowell .....	Radiology .....	95
Anderson, William A. ....	Medicine .....	75
Andreoli, Vittorino M. ....	Anatomy .....	69
Angelo, E. Joanne .....	Psychiatry .....	92
Apgar, Virginia .....	Pediatrics .....	88
Arcuri, Joseph .....	Psychiatry .....	90
Arditi, Lucian I. ....	Medicine .....	73
Argyros, Diana C. ....	Medicine .....	75
Arlen, Myron .....	Surgery .....	98
Armistead, George C. ....	Medicine .....	75
Armstrong, Donald .....	Medicine .....	75
Arnold, William D. ....	Surgery .....	96
Aronian, John M. ....	Surgery .....	97
Aronson, Alfred L. ....	Medicine .....	75
Aronson, Jason .....	Psychiatry .....	90
Arthur, Keith .....	Radiology .....	95
Artusio, Joseph F., Jr. ....	Anesthesiology .....	70
Artzt, Karen .....	Anatomy .....	69
Ascheim, Robert S. ....	Medicine .....	77
Ashe, Barbara S. ....	Pediatrics .....	87
Ashikari, Hiroyuki .....	Surgery .....	98
Askari, Amir .....	Pharmacology .....	88
Asnis, Stanley E. ....	Surgery .....	97
Atkinson, Sam C. ....	Medicine .....	73
Auld, Peter A. Mcf .....	Pediatrics .....	86
Avent, Samuel .....	Surgery .....	97
Ayromlooí, Jahangir .....	Obstetrics & Gynecology .....	83
Bachl, Bonita L. ....	Pathology .....	85
Bachvarova, Rosemary F. ....	Anatomy .....	69
Baer, Ralph A. ....	Medicine .....	77
Bains, Manjit S. ....	Surgery .....	98
Baker, Alan .....	Radiology .....	95
Baker, Ralph D. ....	Psychiatry .....	92
Baker, Thomas .....	Pharmacology .....	88
Balagura-Baruch, Sulamita .....	Physiology .....	89
Balasaz, Leslie .....	Anesthesiology .....	71
Balensweig, Howard D. ....	Surgery .....	97
Balliett, Elizabeth K. ....	Psychiatry .....	92
Baltaxe, Harold A. ....	Radiology .....	95
Balter, Stephen .....	Radiology .....	95
Barandes, Martin .....	Medicine .....	77
Barber, Hugh R. K. ....	Obstetrics & Gynecology .....	82
Barile, Raymond G. ....	Anesthesiology .....	71

Barnes, Lloyd T. ....	Medicine	73
Barnes, William A. ....	Surgery	96
Baronberg, Neiel ....	Ophthalmology	84
Barondess, Jeremiah A. ....	Medicine	73
Barr, David P. ....	Medicine (Emeritus)	41
Barrett, Beverly J. ....	Pediatrics	87
Barten, Harvey H. ....	Psychiatry	90
Barzun, Kathleen A. ....	Psychiatry	92
Basile, Naef K. ....	Obstetrics & Gynecology	83
Bass, Richard R. ....	Pediatrics	87
Bates, Paul E. ....	Obstetrics & Gynecology	83
Battastini, Noe ....	Neurology	81
Bauer, Charles H. ....	Pediatrics	86
Bauer, Richard M. ....	Pediatrics	87
Baumgartner, Leona ....	Pediatrics; Public Health (Emeritus)	93
Baxter, James E. ....	Psychiatry	90
Baylor, Curtis H. ....	Medicine	75
Bearn, Alexander G. ....	Medicine	73
Beattie, Edward J. ....	Surgery	98
Becker, Carl G. ....	Pathology	85
Becker, David V. ....	Medicine; Radiology	73; 95
Becker, E. Lovell ....	Medicine	73
Beckett, Thomas ....	Psychiatry	90
Behrman, Stanley J. ....	Surgery	96
Beling, Carl ....	Obstetrics & Gynecology	82
Belladonna, Joseph A. ....	Medicine	77
Belshaw, Bruce ....	Medicine	77
Beneventi, Francis A. ....	Surgery	96
Benjamin, Brv ....	Medicine	75
Benjamin, Hermina Z. ....	Medicine	75
Bennett, Dorothea ....	Anatomy	69
Benton, Louis J. ....	Surgery	97
Benua, Richard S. ....	Medicine	73
Berenberg, Samuel R. ....	Pediatrics	86
Berger, David M. ....	Surgery	98
Bergland, Richard M. ....	Surgery	96
Berkowitz, Jerome S. ....	Ophthalmology	84, 96
Berkowitz, Richard L. ....	Obstetrics & Gynecology	83
Berkowitz, Sharon F. ....	Pediatrics	87
Bernie, William A. ....	Surgery	98
Berntsen, Carl A. ....	Medicine	75
Besley, Richard N. ....	Psychiatry	92
Bethea, James S. III ....	Surgery	97
Bettigole, Richard E. ....	Medicine	75
Bienenstock, Harry ....	Medicine	75
Billings, David ....	Pediatrics	87
Billo, Otto E. ....	Pediatrics	87
Binford, Robert T. ....	Medicine	75
Bippart, Charles H. ....	Obstetrics & Gynecology	83
Birla, Rajendra ....	Surgery	98
Birnbaum, Gary ....	Neurology; Medicine	81, 77
Birnbaum, Stanley ....	Obstetrics & Gynecology	82
Blackman, Sheldon ....	Psychiatry	90
Blau, Lawrence M. ....	Radiology	95
Bleifeld, Charles J. ....	Surgery	97
Blitz, Marvin B. ....	Psychiatry	92
Bohne, Walter H. O-S ....	Surgery	97
Bolt, William M. ....	Medicine	77
Bombardieri, Stefano ....	Medicine	77
Bonsnes, Roy W. ....	Obstetrics & Gynecology; Biochemistry	82, 72
Booher, Robert ....	Surgery	98
Boutelle, William E. Jr. ....	Psychiatry	92
Bowden, Lemuel ....	Surgery	98
Bowers, William F. ....	Biochemistry	72
Brachfeld, Norman ....	Medicine	73
Bragg, David G. ....	Radiology	95

# 118 Register of the Medical College Staff

Brander, Jerome H. ....	Obstetrics & Gynecology	83
Brasel, JoAnne ....	Pediatrics	87
Brasfield, Richard D. ....	Surgery	98
Brayton, Robert G. ....	Medicine	75
Braunstein, Paul W. ....	Surgery	96
Breakey, William R. ....	Psychiatry	91
Bredin, Hugh C. ....	Surgery	97
Brennan, Bernard L. ....	Biochemistry; Surgery	72, 97
Brennan, Robert ....	Neurology	81
Breslow, Esther ....	Biochemistry	71
Brethwaite, Samuel H., Jr. ....	Medicine	77
Brice, Mitchell II ....	Surgery	96
Brill, Paula ....	Radiology	95
Brilliant, Renee M. ....	Pediatrics	87
Briscoe, William A. ....	Medicine	73
Brockunier, Alfred, Jr. ....	Obstetrics & Gynecology	82
Brodman, Keeve ....	Medicine	75
Brooks, Dana C. ....	Anatomy	69
Brown, David E. ....	Psychiatry	92
Brown, Harry I. ....	Anesthesiology	71
Brown, James W. ....	Psychiatry	92
Brown, Jeffrey L. ....	Pediatrics	87
Brown, John Lyman ....	Medicine	75
Browne, Michael ....	Surgery	97
Browne-Mayers, Albert ....	Psychiatry	91
Brunschwig, Alexander ....	Surgery (Emeritus)	41
Bruton, William ....	Surgery	97
Buchanan, J. Robert ....	Dean; Medicine	73
Buchanan, Mary C. ....	Pediatrics	87
Buchman, Myron I. ....	Obstetrics & Gynecology	82
Buckley, Jerald D. ....	Obstetrics & Gynecology	83
Bugbee, Robert ....	Radiology	95
Bull, Geoffrey F. ....	Biochemistry	72
Bullough, Peter G. ....	Pathology	85
Burchenal, Joseph H. ....	Medicine	73
Burns, Anthony J. ....	Anesthesiology	71
Burns, John J. ....	Pharmacology	88
Burstein, Charles ....	Anesthesiology	70
Cabot, Hector M. ....	Obstetrics & Gynecology	83
Cahan, William G. ....	Surgery	98
Camarda, Anthony ....	Surgery	97
Cameron, Donald J. ....	Medicine	75
Cameron, Joan M. ....	Radiology	95
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